

# Kamyak Addagatla

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## Professional Summary

Results-driven *Senior Software Engineer* and *Software Architect* with over 8 years of full-stack development experience, including high-impact work at The Home Depot. I specialize in *designing* and building *robust, scalable* systems for complex *e-commerce* environments—covering pricing, promotions, fulfillment, checkout, and B2B experiences—while turning data into *actionable* insights that drive conversion uplift, *reduce* errors, and *optimize* profitability in high-volume retail supply chains.

My technical foundation spans modern *full-stack* technologies and advanced *analytics* platforms. I excel at architecting *maintainable, high-performance* applications, integrating *emerging* technologies, *optimizing* system efficiency, and building *scalable* data solutions. I leverage *AI* to accelerate both development velocity and insight generation.

Drawing from a dual background in *computer science* and *video game design*, I bring a distinctive perspective to *problem-solving*—one that emphasizes intuitive user experiences, thoughtful *system architecture*, and *creative* yet *pragmatic* approaches to *complex* challenges. I thrive in *leading* and *mentoring* engineering teams to deliver *innovative*, business-aligned solutions with long-term *maintainability* in mind.

- Full-stack architecture & development of large-scale e-commerce & retail systems
  - Proven impact on conversion, error reduction, and profitability through data-driven features
  - Deep expertise in React, JavaScript/TypeScript, Node.js, GraphQL, Spring, Java
  - Advanced analytics & data-insight generation (BigQuery, Adobe Analytics, Quantum Metrics, GA)
  - AI integration for development acceleration and business intelligence
  - Unique blend of CS fundamentals + video game design principles for intuitive UX and creative problem-solving
  - Strong technical leadership, mentoring, and cross-functional collaboration
  - Focus on scalability, performance optimization, maintainability, and long-term system health
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## Analytics & Data Highlights

- Used Quantum Metrics (session replays, heat maps) + BigQuery to analyze thousands of customer sessions, identifying UX friction points and driving redesigns that increased conversion rates.
- Built custom dashboards in Adobe Analytics and Google Analytics to track promotion performance, fulfillment options, and bottom-of-funnel metrics.
- Debugged customer journey issues by querying API logs and datasets, translating raw data into actionable recommendations for pricing and inventory strategies.
- Leveraged AI tools (GitHub Copilot, Grok, Claude, ChatGPT) to accelerate data analysis, documentation, and automation scripting.
- Created orchestration layers and APIs that harmonized pricing, promotion, catalog, and inventory data for real-time frontend consumption.

## Professional Experience

### The Home Depot

Sr Software Engineer

*Atlanta, GA (Remote) | November 2024 – January 2026*

- Spearheaded modernization of critical components for Price & Promotion modules using Vite + React + Tailwind/Stencil, earning a Bit Award and improving LCP/INP scores while accelerating feature delivery. Reduced development time by ~3 days and achieved 90% code coverage
- Developed unified data orchestration layer for pricing, promotions, and real-time inventory, powering in-stock-only displays on promotion modules via customer recs—eliminated 100% of sold-out item promotions, boosted vendor satisfaction, and contributed to higher conversion rates in high-traffic promo sections.
- Analyzed promotion performance to improve system reliability and effectiveness up to 60% conversion
- Rebranded Special buy of the day/ week into daily/weekly deals, by standardizing promotions to match industry leaders. This contributed to \$500M in sales for black Friday 2025
- Co-led cross-functional teams to deliver first-in-class promotions across desktop and mobile, including the Milwaukee Packout gamified drag-and-drop tool kit builders, driving engagement and conversion by 40%, and brought in \$340M in revenue in the first quarterly report
- Built and maintained comprehensive Adobe Analytics tracking dashboards and monitoring for features, enabling real-time performance insights.
- Mentored and coached junior engineers, strengthening overall team performance and accelerating feature delivery / reducing onboarding time / improving code quality

### The Home Depot

Software Engineer 2

*Atlanta, GA (Remote) | October 2021 – November 2024*

- Implementation of first-in-class Categorized Buy More Save More (BMSM) promotion for major appliances, reducing vendor shrink by 50% by preventing stacked discount in a category and forcing the customer to build a bundle as the promotion was intended. This helped generate \$800M for black Friday of 2024, earning a BIT award.
- Replaced legacy Buy One Get One (BOGO) logic with modern Buy X Get Y (BXGY) promotion rules, improving promotional clarity and reducing cart abandonment by 50% and increasing the average sales per order by \$100
- Redesigned 2-tile fulfillment layout to highlight fastest/cheapest options, boosting conversion rates by 70% and customer satisfaction, contributing to higher order completion and profitability.
- Optimized fulfillment and inventory visibility feature, Pickup Nearby drawer with localized in-stock inventory, to enhance operational efficiency and bottom-of-funnel profitability in high-volume retail supply chain.
- Analyzed BigQuery logs and API payloads to diagnose and resolve bottom-of-funnel errors, improving order completion rates.
- Created quarterly epics, user stories, and roadmaps to align technical delivery with business goals.
- Authored unit/integration tests (Jest) and enhanced automated Bugbear scripts for faster quality assurance.

## The Home Depot

Software Engineer 1

*Lewisville, TX (Remote) | August 2018 – October 2021*

- Modernized cart and checkout experiences, including promo code visibility and order confirmation, reducing conversion errors through data-driven optimizations.
- Rolled out MVP of curbside pick week prior to Covid lockdown, this was done for Dev games and won 1<sup>st</sup> place. Brought in \$3B for first in class feature to be rolled out in critical time.
- Built out ProXtra perks page and trackers to show how much savings customers can achieve if they spend more, they will get more discounts on their purchases. Offered gift cards, tool rental, free drink, and snacks. This increased average spending of b2b customers up to 40%
- Developed orchestration layer to deliver My Account and Loyalty data to frontend, enabling personalized B2B features like QuickBooks integration, Single sign-on, ProXtra perks, LAMP, B2X, and Curbside pickup.

## The Home Depot

Internship

*Lewisville, TX | May 2018 – August 2018*

- Building an online gift registry, to retire in store centric gift registry service.
- Setup employees AV setup for personal and team meeting room: Chromecast + Cisco Webex.
- Help with office events organization and setup. I was involved with the fun committee, setting up ice breakers and gaming/sport tournaments.

## The Home Depot

Night Merchandise Execution Associate

*Denton/Sherman/Frisco/Allen, TX | December 2015 – May 2018*

- Collaborated with team leaders and managers to execute nightly projects across 6 stores per month, including rebuilding displays/bays, installing signage, updating price labels, and maintaining safety standards.
- Lead team on group projects to ensure to be completed before store opens
- Operated heavy equipment (forklift, order picker, electric pallet jack) and performed down stocking/front-facing to ensure merchandise availability.

## The Home Depot

Sales Associate

*Allen/Denton, TX | February 2014 – December 2015*

- Delivered customer service across multiple departments (garden, lumber, electrical, paint, plumbing, appliances, flooring); assisted with project planning, material gathering, and order management.
  - Managed seasonal operations (Christmas tree tent)
  - supported freight team with overhead stocking and signage preparation.
  - Help customers load goods to their vehicle
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## Education

**University Of North Texas:** Bachelor of Science in Computer Science / Video Game Design  
*Denton, TX | January 2015 – August 2018 – GPA 3.2*

**Collin College:** Associate of Science in Computer Science  
*Plano, TX | May 2011 – December 2014 – GPA 3.2*

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## Certified

Docker, OpenShift, & Kubernetes Essentials · Generative AI Leader Professional · Google IT Support Professional · Google AI essentials · Pharmacy technician fundamentals · Microsoft Office · Coastal/Lake sailing license · Motorcycle license · Car license · Forklift/ Order picker/ Electric pallet jack Certified

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## Business Skills

### Driving a positive climate

Drives engagement · Collaborates · Financial acumen · Global Perspective

### Reducing employee's desire to leave

Developing talent · Attracts top talent · Interpersonal savvy · Resourcefulness

### Driving the engagement of their team

Instills trust · Communicate effectively · Build networks

### Delivering excellent overall performance

Action oriented · Ensures accountability · Decision quality · Customer focus · Nimble learning · Self-development · Tech savvy · Cultivate Innovation · Situational Adaptability

### Being seen as easily promotable

Drives results · Drives vision and purpose · Manges complexity · Plans and aligns · Business insight · Courage

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## Technical Skills

Software Engineering, Website Management, Database Maintenance, Analytics Tracking

### Analytics & Data

BigQuery · Adobe Analytics · Google Analytics · Google Lighthouse · Quantum Metrics · Data Modeling · API Log Analysis · Custom Dashboards.

### AI API

*Actively building proficiency in:* Speech-to-Text · Text-to-Speech · Translation · Document translation · Document AI · Cloud vision · Cloud video intelligence · Natural language processing (NLP) · Natural language toolkit (NLK)

## AI Tools

*Actively building proficiency in:* Claude · Llama · N8n · CodeAI · IBM Watson · Veo · Imagen · Chirp · NotebookLM · PyTorch · TensorFlow · scikit-learn · XGBoost · AutoML · Terraform · OpenTofu · Jupyter notebook · JupyterLab · IBM cloud · Prisma

GitHub Copilot · Gemini · Grok · ChatGPT · Distrokid · Suno.io · Meshy.ai · Ludo.ai · Opus.clip · Ekclipse.gg

## Amazon Web Service Tools

*Actively building proficiency in:* Amazon Q · Amazon Rekognition · Amazon SageMaker AI · Amazon Comprehend · Amazon Translate · Amazon Textract · Amazon Lex · Amazon Polly · Amazon Transcribe · Amazon Kendra · Amazon Personalize · Amazon DeepRacer · Amazon SageMaker JumpStart · Amazon Bedrock · Amazon Q (Developer) · Amazon Elastic Compute Cloud (Amazon EC2) architecture · Amazon Virtual Private Cloud (Amazon VPC) · Amazon Simple Storage Service (Amazon S3) · Amazon Elastic Block Store (Amazon EBS) · Elastic Load Balancing (ELB) · AWS Identity and Access Management (IAM)

## Google Cloud Platform Tools

*Actively building proficiency in:* Google's Customer Engagement suite · Cloud Run (functions) · Gemini Nano · Google PaLM · Gemini APIs · Google AI Studio · Google ARCore · Google Maps GeoCoding · vertex Ai · Gemma · Identity and Access Management (IAM)

Google Workspace

## Microsoft Azure Tools

*Actively building proficiency in:*

Figma · Adobe XD · Miro · Zeplin · Draw.io · Sketch.io · Gliffy

## WordPress Tools

*Actively building proficiency in:*

WooCommerce · Adobe XD · Miro · Zeplin · Draw.io · Sketch.io · Gliffy

## Wix Tools

*Actively building proficiency in:*

Figma · Adobe XD · Miro · Zeplin · Draw.io · Sketch.io · Gliffy

## UX Tools

Figma · Adobe XD · Miro · Zeplin · Draw.io · Sketch.io · Gliffy

## Communications

Teams · Cisco Webex · Zoom · Google Meet · Slack · Discord · Skype · Jira · Trello · Asana · Atlassian/Confluence

## Languages & Frameworks

*Actively building proficiency in:* Micronaut · Lua · .NET · ORM · ASP.NET MVC · Angular2 · Selenium · Playwright · Soap UI · REST Assured · Jython(Java) · IronPython(C#) · PyPy · Swift · NoSQL · React Native · Go · Rust · Secure AI Framework (SAIF) · Natural language processing(NLP) · Computer vision · Machine learning(ML) · Robotics · Conversational agents · Workflow agents · Meta's Llama · Mistral AI · TII Falcon ·

CodeGemma · PaliGemma · AI Edge SDK · Cloud Storage · SOAP · Gemini Enterprise · Ruby on rails · Spring · HCL · Red Hat · VMware · Mesosphere · SUSE · Cloud Foundry · Astro · Vercel

Java · JavaScript · TypeScript · C · C++ · C# · HTML5 · Json · SASS · CSS3 · React · Redux · Node.js · Hamrony · GraphQL · Apollo client · RESTful API · Swagger UI · Stencil/Tailwind CSS · Material-UI · Flexbox · Arm coding · State management · Machine code · Compiler · Java Virtual Machine (JVM) · Scala · XML · PowerShell · ReAct · chain-of-thought(CoT) · PHP

## Testing & DevOps

*Actively building proficiency in:* PyLint · Gatling · Neoload · Splunk · BlazeMeter · SORE · Marathon · Nomad · Docker Swarm

Cucumber · Jest · Vitest · Mockito · Bug Bear · ClickTale · Agile · Scrum · CI/CD (Concourse) · ESLint · Babel · Clicktale · SonarQube · Code Climate · SauceLabs · GitLab · JUnit · Dashboards

## Tools & Platforms

*Actively building proficiency in:* Proxmox · ZimaOS · VM · Compute Engine · Cloud Storage · Kubernetes · TestRail · Zephyr · ColdFusion · OpenCV(cv2) · Pillow(PIL) · Neural network · CNN · LeNet · ResNet · Pl@ntNet · pip · wget · Pandas · SciPy · NumPy(np) · Matplotlib · ImageOps · ImageDraw · ImageFont · ServiceNow · OpenShift · Istio · Podman · LXC · Vagrant · Docker CLI · Docker compose · Prometheus · JFrog · Univa · Aspen Mesh · Cloud 66 · Bitnami · Creo · Kafka · Apache Zookeeper · Kraft · Ansible · Grail Mac · Windows · Linx · Ubuntu · Raspberry pi · Vite · JENV · Webhook · Webpack · N · NVM · NPM · PNPM · Git · Git Flow · GitHub · Github Actions · GitHub Desktop · Postman · GraphQL Playground · Charles Proxy · Contentful · Excel · Word · PowerPoint · One Drive · Outlook · OneNote · Paint · Clipchamp · Plex · Docker · Apache Tomcat · Bootstrap · Dropbox · Epic systems · Google ads · PHP · OpenGL · OAuth2 · JWT

## Management

*Actively building proficiency in:* Digital Ocean · Iodse · SUPERGIANT · CloudSoft · turbonomic · Tectonic · Weaverworks

## Monitoring & logging

*Actively building proficiency in:* sumalogic · DATADOG · New Relic · iguazio · Grafana SignalFX · sysdig · Dynatrace · JMeter · LoadRunner

## Security

*Actively building proficiency in:* GUARDCORE · BLACKDUCK · yubico · cilium · aqua · TwistLock · Alcide

## Load balancing

*Actively building proficiency in:* AVI networks · VMware · NGiNX

## Algorithms

*Actively building proficiency in:* Haar Cascade · Everybody dance now

Knapsack · Divide and conquer · Kruskal's · Prim's · Greedy · Dynamic · Travelling salesman problem

## Machine Learning Techniques

*Actively building proficiency in:* K-NN · Logistic regression · Softmax · SVMs

## IDE

*Actively building proficiency in:* PyCharm · Arduino IDE

Xcode · WebStorm · IntelliJ · VS code · Textpad++ · Eclipse · Sublime · Subversion SVN · Notepad++

## Crypto Mining Tools

Nice Hash · T-Rex · HiveOS · Mining Pools · unMineable

## Gaming Tech Stack

*Actively building proficiency in:* MEE6 · Unreal Engine 4/5 · Photoshop · Blender · Illustrator ·

Dreamweaver · After Effects · AutoCAD

Unity · Fruity Loops Studio · Audacity · Maya · 3ds Max · Premiere · StreamLabs · OBS · Elgato · Rog · MSI · Intel · Nvidia · Corsair · EVGA · Gpu Tweak 3 · Msi Afterburn · ICUE · L-connect 3 · Steam link · Crytek CryEngine · Zbrush

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## Personal Projects (*Full-Stack Platforms with Analytics Focus*)

### GameXPro.com

- Gaming community platform with live streaming, server hosting, and analytics dashboards tracking user engagement and content performance.

### MachoPhat.com

- Fitness ecosystem with workout catalogs, meal plans, promo codes, and custom analytics for user growth and retention.

### BardSpun.com

- AI-generated music label with playlist streaming and community analytics.

### Torot (Unreal Engine 5 – Personal Project / Indie Game Prototype)

- Built a roguelike space-shooter: pilot a customizable space train delivering payloads across planets while defending against debris, raiders, and planetary bosses.
  - Designed procedural generation for randomized asteroids, comets, debris, and salvage used in crafting/upgrades.
  - Implemented dynamic mission/loadout selection, launch sequences, hull reinforcement, power-ups, and upgradable turrets, security robots, and orbital drones.
  - Created hybrid gameplay blending real-time shuttle combat, fighter customization, planetary boss fights, and home-base tower defense.
  - Integrated team/global text + voice chat systems for cooperative play.
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## Learning Interests

Gen Ai · 3D printing (resin/PLA) · VR (valve Index/metaQuest/ htc trackers) · AR (viture/Google ARCore/ Samsung AR zone/ Apple ARkit) · Drone technology · LiDar · Media server/CCTV system · Custom PC/server builds for gaming, media, and home automation

## Hobbies

Appliance/Car/Motorcycle repairs · Home remodeling and repairs · Automated Gardening · Gourmet chef · Body building · Wellness/Primary care · Traveling · Surfing · Skateboarding · Rock Climbing · Sword mastery · Archery · Hunting · Fishing

## Streaming as Boldguy

Stream personal walk through in games, also showcase mods and creations from the community. Also to expand my knowledge as game maker and designer for game development

## Streaming Platforms

Twitch.tv · YouTube · X · Facebook Live · Instagram · TikTok

## Games and Modding

Call of duty · Fortnite · World of Warcraft · VR Valheim · Minecraft · Ark Survival Evolved · VR repo · Beat Saber · Peak · VRchat · BSmanger · R2modman · Thunderstore · Curse Forge · Nexus mod · Luke Ross VR