

KARTHIK MARINENI

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SUMMARY

Engineer skilled in full-stack development using Python, Java, TypeScript, and React. Experienced in scalable systems, CI/CD, debugging, QA pipelines, and secure APIs with growing exposure to networking and cloud platforms.

EDUCATION

Purdue University, Fort Wayne

Aug 2023 - May 2025

Master of Science, Computer Science

GPA: 3.7/4.0

Relevant Coursework: Full-Stack Web Development, ML, Software Engineering, Algorithm Analysis and Design.

SKILLS

Languages & Frameworks: C++, Python, Java, TypeScript, React.js, JavaScript, Node.js, GRPC, HTML5, CSS3, SQL, Express.js, FastAPI

Cloud & DevOps: AWS (Certified), Azure, Docker, Kubernetes, GitHub Actions, CI/CD, Linux, Git, MQTT, GCP

Databases & APIs: PostgreSQL, MongoDB, Redis, GraphQL, REST APIs, JWT, RabbitMQ

Testing & Tools: PyTest, Cypress, Jest, Postman, DevTools, Sentry, Lighthouse, QA Automation, React Profiler

Certifications: Azure Developer Associate, AWS Cloud Practitioner

Practices: Agile (Scrum), Debugging, Secure Coding, Test Automation, OOP, Networking Concepts

EXPERIENCE

Software Engineer, H-E-B

Aug 2024 – Present

- Led backend development for a key internal tool using Node.js and Express, integrating MongoDB and MSSQL to ensure fast and reliable data processing in high-volume store systems.
- Optimized React.js components for the same platform, improving UI load times and responsiveness across store-level dashboards and handheld devices.
- Supported CI/CD and testing integration with Docker, GitHub Actions, and Postman for another ops-facing tool used by H-E-B's partner services team.
- Investigated backend issues and applied secure coding practices to rewrite fragile modules, improving maintainability and system stability.
- Contributed to architecture reviews and sprint planning discussions, offering ideas and insights across the teams.

Junior Full Stack Developer(Intern), H-E-B

Jan 2024 – Jul 2024

- Developed features for H-E-B's curbside staging dashboard using React.js and Node.js, improving order visibility.
- Implemented role-based view layers and structured error flows to enhance partner usability and system stability.
- Participated in Agile standups and contributed test automation using Jest and Postman integrated in CI workflows.
- Refactored React components into functional modules, reducing re-renders and trimming JS bundle for faster loads.

Full Stack Developer, Cognizant Technology Solutions

Aug 2022 – Jul 2023

- Built a responsive SPA using Angular with reusable components and route guards for secure UX; integrated frontend with backend RESTful APIs to support dynamic data workflows.
- Developed backend services in Spring Boot (Go-like structure) using Java; applied OOP principles and implemented scalable service communication with API Gateway and Eureka.
- Designed and tuned MongoDB, MSSQL, and MySQL schemas; improved query performance and automated workflows using SQL Server Management Studio.
- Containerized backend services with Docker and deployed to Kubernetes clusters; built CI/CD pipelines using Azure and enabled distributed telemetry with MQTT.
- Practiced Agile delivery, collaborated across engineering teams, joined sprint planning, and wrote clean, maintainable code with Git-based version control.

PROJECTS

EventEase - Event Management Platform

2024 – 2025

- Developed a React + TypeScript platform with modular UI components, GraphQL APIs, and scalable backend; added fast onboarding and secure payment flows with real-time analytics and developer-focused functionality.
- Deployed via GitHub Actions; added Cypress tests and Chart.js dashboards for enriched platform metrics and visibility.

Food Truck System

2023 – 2024

- Developed full-stack system with React, Node.js, PostgreSQL, and QR tracking; included async workflows and containerized deployment using Docker and CI/CD pipelines.
- Integrated JWT authentication, PostgreSQL (ORM), QR tracking, and AI-powered test coverage using Cypress.