KRISHNA GUNUPUDI
Full-Stack AI Developer

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SUMMARY

Full-Stack Engineer with 3 years of experience designing and deploying scalable, secure, and cloud-native applications across healthcare, finance, retail, and enterprise systems. Experienced in React, Node.js, Java, Spring Boot, and Python, with expertise in microservices, and AWS-based architectures. Hands on with AI/ML solutions using TensorFlow, scikit-learn, LangChain and NLP-driven workflows.

SKILLS

Front-End: React, React Native, Angular, Vue.js, Next.js, JavaScript, TypeScript, HTML5, CSS3, Tailwind, Bootstrap, Material-UI, SASS, Three.js, Redux, jQuery, AJAX

Back-End: J Java, Spring Boot, Spring MVC, Spring Security, Hibernate, Python, Django, C#, .NET Core, .NET MVC 5, Go, Node.js, Express.js, RESTful API, WebSockets

DevOps & Tools: AWS (Lambda, ECS, SQS, RDS), Google Cloud, Azure, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, Webpack, Vite, Apache Airflow, Git, Maven, Visual Studio, GitHub Copilot

Testing & Quality: Test-Driven Development (TDD), JUnit, PyTest, Cypress, Selenium, Jest, Mockito, SQL Profiler, JIRA, Eclipse

Databases: SQL Server, PostgreSQL, MySQL, OracleDB, Amazon RDS, MongoDB, ElasticSearch, Supabase, GraphQL

System Design & Architecture: Distributed Systems, Scalable Architecture, Microservices, REST API Design, JSON

Algorithms & Programming Concepts: Data Structures, Multithreading, Synchronization, Scheduling Algorithms, Distributed Consensus, OS Internals, Memory Management, OOPs

Agile & Collaboration: Agile/Scrum, SDLC, Waterfall, Sprints, Collaboration, Pair Programming, Debugging, Code Reviews, VS Code

AI & ML: Machine Learning, Deep Learning, NLP, Model Deployment (MLflow, SageMaker), Feature Engineering, Model Interpretability, Responsible AI, RAG, Vector Databases (FAISS, Pinecone), Prompt Engineering, LangChain, LlamaIndex, Open AI

WORK EXPERIENCE

Full Stack Developer | Morgan Stanley　　　　　　　　　　　　　　　　　　　　　　　　**July 2025 – Present**
- Developed a scalable banking platform using React.js, Node.js, Spring Boot, and PostgreSQL/MongoDB, optimizing transaction processing and account management APIs to improve response times by 40% and support 1,000+ daily users.
- Implemented secure role-based authentication with Spring Security, JWT, and Firebase Auth, adding AI-driven anomaly detection to flag suspicious login and transaction patterns and strengthen fraud prevention efforts.
- Built an AI-driven analytics dashboard using the MERN stack, Flask microservices, and AWS, providing ML-based insights for credit risk, customer behavior, and real-time transaction monitoring to improve operational decisions by 35%.
- Automated deployments using Docker, Kubernetes, Terraform, and GitHub Actions. Implemented Jest, Cypress, JUnit, and Mockito test suites to ensure platform reliability and used Python/Selenium with LangChain automation to eliminate 25+ hours of manual reporting and compliance tasks per week.

Graduate Assistant | Indiana State University　　　　　　　　　　　　　　　　　　　　**June 2023 – May 2025**
- Implemented authentication workflows and role-based access control using Node.js, Express.js, JWT, and MongoDB for a university portal, improving login reliability by 40% and supporting secure access for students, faculty, and staff.
- Built responsive and accessible front-end modules using React.js, TypeScript, HTML5, CSS3, and Material-UI, reducing page-load time by 25% and increasing student engagement on course dashboards and event management pages.
- Designed and optimized relational and NoSQL data models using PostgreSQL building RESTful APIs in Node.js to streamline academic workflows such as course enrollment, attendance tracking, and resource reservations reducing query latency by 35%.
- Developed interactive dashboard features with React.js and WebSockets for real-time updates on campus events, lab availability, and student analytics, improving decision-making speed for student organizations by 20%.

Software Engineer | Capgemini Technology Services, India　　　　　　　　　　　　　　**Jan 2022 – Sept 2023**
- Configured scalable ASP.NET Core microservices on Azure and SQL Server, optimizing API-driven communication across distributed systems and cutting response latency by 40% through strategic caching and query optimization.
- Refined enterprise ETL pipelines using SQL Server, Stored Procedures, and Entity Framework, automating 30% of manual workflows and reducing data latency by 35% to enhance data integration across multiple services.
- Developed secure, high-performance ASP.NET Core microservices with JWT-protected REST APIs, improving request throughput by 30% and enabling reliable communication within a modular, service-oriented architecture.
- Enhanced responsive front-end modules using Angular, React.js, HTML5, CSS3, and Bootstrap integrated with ASP.NET MVC and Web API to reduce page load times by 25% and improve dashboard/report generation efficiency by 40%.

PROJECTS

IntelliCare AI: Engineered a RAG-powered healthcare assistant using React, FastAPI, FAISS, and Google Gemini, enabling 90%+ accurate symptom insights and improving response reliability by 40% through ML-driven risk prediction and curated medical data retrieval.

SwiftCart: Built a responsive e-commerce UI using HTML, CSS, and JavaScript, integrating product APIs with search and category filtering for a smooth, front-end–only shopping experience.

Flight Booking System: Orchestrated modular ASP.NET Core microservices with C# and Angular, streamlining booking workflows and improving user flow, while accelerating backend performance by 40% through Redis-based caching and optimized service orchestration.

EDUCATION

Master's in computer science | Indiana State University　　　　　　　　　　　　　　　　**Aug 2023 – May 2025**

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900) ⧉ and Azure Administrator Associate (AZ-104) ⧉