

# Iam Ravara

## Senior Full Stack & AI Engineer

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### SUMMARY

Full Stack & AI Engineer with 9+ years of experience building scalable backend systems for regulated SaaS environments. Led initiatives to resolve high-frequency customer issues, decreasing repeat support escalations and improving operational efficiency. Delivered AI-driven SaaS platforms, improving processing speed by 35%. Led UI redesigns for five key mobile applications, directly contributing to a 15% increase in customer lifetime value.

### WORK EXPERIENCE

#### MentorTech Solutions

##### Senior AI Full Stack Engineer

Apr 2024 - Present

- Revamped the PostgreSQL database schema, implementing performance enhancements that boosted system stability by 35% and reduced query execution time by an average of 20%.
- Led root-cause analysis for complex production failures, coordinating cross-functionally to deploy permanent solutions, resulting in 40% fewer repeat incidents.
- Researched and prototyped an AI-powered clinical documentation assistant using RAG with LangChain, Pinecone, and OpenAI, projecting a 25~30% potential efficiency gain for practitioners.
- Optimized AWS infrastructure using Terraform and Kubernetes, automating deployments and improving scalability while achieving a 20% cost reduction.
- Accelerated team delivery consistency by 12% through comprehensive technical mentorship of four junior engineers and knowledge sharing sessions in AI/ML, ensuring code maintainability.
- Streamlined CI/CD pipelines by implementing automated testing and deployment strategies, incorporating QA processes to ensure code quality, resulting in 50% faster deployments.
- Automated six manual data validation steps using NLP, leading to a 35% improvement in data processing efficiency and freeing up junior engineers for higher-impact initiatives.

#### Sollo Brasil

##### Full Stack Engineer

Nov 2021 - Apr 2024

- Architected Python automation workflows using Flask and RESTful API integrations, incorporating Node.js for backend services, and implemented Git-based CI/CD pipelines, eliminating manual processes and reducing operational errors by ~10 hours per week.
- Owned backend services and system architecture for critical internal platforms, improving system uptime by ~5% by refactoring brittle integrations and implementing structured error handling and monitoring.
- Served as technical escalation point for production issues, coordinating vendor and internal engineering communication to reduce average incident resolution time by ~25%.
- Integrated AI/ML capabilities into assessment platforms using embeddings and vector similarity search, improving content discoverability and increasing search relevance by ~30%.
- Guided 5+ junior developers in mobile development best practices, resulting in an average mentorship satisfaction score of 4.8/5 and improved build times by 15%, as reported in surveys.

#### Upwork

##### Full Stack Engineer

Jun 2016 - Nov 2021

- Revamped mobile onboarding flow with React Native using React, Javascript, and Typescript, cutting churn by 30% by integrating personalized tutorials, and shipped code to production 50+ times while following scrum methodologies.
- Engineered scalable .NET applications in C# for both desktop (Windows Forms) and web (ASP.NET) environments, leveraging SQL Server for data management while applying back-end best practices and robust object-oriented design principles.
- Designed and developed high-performance software solutions in C/C++, Rust, and Go, improving system reliability, scalability, and overall performance for client-facing applications.
- Architected robust RESTful APIs utilizing MongoDB and Redis, optimizing caching mechanisms and background tasks, consequently diminishing latency by 30% and boosting application performance metrics.
- Integrated Docker containers into CI/CD pipelines, which resulted in a 45% acceleration in release cycles by automating the build and deployment processes, saving the team 2 hours per deployment.

## SELECTED ACHIEVEMENTS

- Engineered scalable AI SaaS platforms using Python for backend services and React/Next.js for the user interface, which improved processing speed by 35% and reduced compute costs.
- Designed the architecture for cloud-native systems across AWS, Azure, and GCP using microservices and serverless components, achieving 99.5% uptime and 40% cost optimization.
- Designed Python-based AI automation services integrating LLMs and LangChain to streamline internal data analysis workflows.

## CORE SKILLS

**Languages:** Python, TypeScript, JavaScript (ES6+), C#, C++, Bash, Go, Lua

**Frontend:** React, Next.js, Vue.js, Tailwind CSS, Chakra UI

**Backend & APIs:** Node.js, Django, Flask, FastAPI, REST, GraphQL, WebSockets, Microservices, Express, Maven

**AI / ML:** TensorFlow, PyTorch, Scikit-learn, LLMs, LangChain, LangGraph, MLflow, OpenCV, NumPy

**Cloud & DevOps:** AWS, Azure, GCP, Docker, Kubernetes, Terraform, CI/CD, GitOps, Firebase

**Data & Search:** PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

**Testing & Tooling:** Jest, Mocha, Cypress, GitHub Actions, Webpack, Vite

**Ways of Working:** Agile/Scrum, Jira, Git, Code Reviews, Cross-functional Collaboration

## EDUCATION

**Open University, Brazil** Sep 2021 - Present

BSc in Computer Science

**Escola Hilda Miranda, Serra** Sep 2013 – Nov 2016

Information Technology

## Languages

English: C2