Rathan A

rtnrathan878@gmail.com | +91 8660139396 | [LinkedIn](#) | [Github](#)
Bengaluru, Karnataka 560067

EDUCATION

PES University, Bengaluru, Karnataka

Bachelor of Technology   Dec 2021 - Jun 2025
Major in Computer Science
Cumulative GPA: 8.51/10
Relevant Coursework: Data Structures and Algorithms, DBMS, OS, OOP, Design Patterns.

EXPERIENCE

BlackBuck, Bengaluru, Karnataka
Software Engineer Intern   Dec 2024 - Jun 2025

- Architected and deployed high-performance **RESTful APIs** and **Microservices** using **Java** and **Spring Boot**, supporting logistics workflows for **12,000+ daily users**.
- Spearheaded the integration of an **IVR audio service** for the 'Super Loads' vertical, scaling to **10,000+ daily calls** and driving a **30% increase** in customer engagement.
- Optimized complex **SQL** queries, reducing data retrieval latency by **30%** to improve operational efficiency.
- Collaborated within an **Agile/Scrum** environment to translate business requirements into technical specifications, ensuring **100% on-time delivery** of sprint milestones.

PROJECTS

Food Delivery Web Application

- Engineered a robust full-stack platform using the MERN stack and TypeScript, integrating **Auth0** for secure authentication and **Stripe** for seamless transaction lifecycles.
- Crafted a responsive, type-safe frontend with **Vite**, **Tailwind CSS**, and **React Query** to optimize data fetching, state management, and user discovery via advanced search and filtering.
- **Technologies:** JavaScript, TypeScript, Node.js, Express.js, React.js, MongoDB, Auth0, Stripe, HTML5, CSS

Patient Management System

- Orchestrated a distributed ecosystem of **5 independently scalable microservices** using **Java** and **Spring Boot**, employing **Apache Kafka** to decouple workflows across dedicated PostgreSQL instances.
- **Accelerated data transmission speeds by 5x** compared to REST by implementing a low-latency communication layer using **gRPC** and Protocol Buffers for critical billing and patient records.
- **Technologies**: Java, Spring Boot, Apache Kafka, Docker, gRPC, PostgreSQL, AWS

AI Recruiter Agent

- Automated the end-to-end hiring workflow by building a multi-agent system with **Python** and **Swarm**, coordinating 5 autonomous agents to handle resume parsing through to candidate recommendation.
- Implemented a local **GenAI** analysis engine using **Llama 3.2** and **Ollama**, featuring a dashboard that performs real-time skill extraction and calculates compatibility scores.
- **Technologies:** Python, LangChain, Llama, RAG, LLMs

TECHNICAL SKILLS

- **Languages:** Java, Python, C/C++, JavaScript, SQL
- **Backend & Frameworks:** Spring Boot, Microservices, Node.js, Express.js, gRPC, RESTful APIs
- **Data & Storage:** MySQL, MongoDB
- **DevOps & Tools:** Docker, Kubernetes, Kafka, Git, CI/CD Pipelines, AWS, SDLC

ACHIEVEMENTS

- Demonstrated strong proficiency in **Data Structures and Algorithms** by solving **600+ problems** on **LeetCode**, securing a global rank within the **top 8%.**
- **Awarded the Prof. MRD Merit Scholarship, granted to the top 15% of students for academic excellence.**