K.Boopathi

</Full Stack Developer>

EXECUTIVE SUMMARY

Full-Stack Engineer & Infra Developer with hands-on experience in building scalable applications and optimizing cloud infrastructure. Skilled in DevOps, Cloud, and Full-Stack Development, with a strong focus on performance tuning and system reliability. Passionate about simplifying complex systems and sharing real-world lessons as a tech blogger. Currently diving into **Generative AI**, applying it to build practical, real-world tools

WORK EXPERIENCE

Full Stack Developer | Klenty | March 2022 – Present

- Build a voice Agent from scratch using pipecat,open source models.
- Automated code reviews by developing a PR review agent, reducing manual effort and improving code quality.
- Collaborated with DevOps to migrate from Heroku to Kubernetes, implementing health probes and a zero-downtime deployment strategy to minimize disruptions while optimizing pod communication using internal domains to enhance security and reduce latency.
- Optimized frontend build times by implementing a workaround, improving development speed by 80%.
- Architected and scaled a new product from the ground up, ensuring system reliability and high performance as traffic grew.

Tech Blogger | Dev.to, Medium, Personal Blog | 2024 – Present

- Shared insights on debugging, infrastructure challenges, and automation through blogs and technical content.
- Created **a Sherlock Holmes-inspired debugging series**, making technical issues engaging.

MERN Stack Developer | ChefAtHome FoodTech LLP | March 2021 – September 2021

- Strengthened platform security by addressing vulnerabilities, increasing security robustness by 80%.
- Refined database queries, decreasing response times by 45%.
- Ensured ACID compliance for critical transactions, safeguarding data integrity.

PROJECTS

- **CallCoach – AI-Powered Sales Call Analyzer**
  - Developed an AI-driven coaching tool to transcribe and analyze sales calls for real-time feedback.
  - Showcased at the AssemblyAI Hackathon, highlighting AI-driven business enablement.

- **Call Agent – AI-Powered Automated Calling**
  - Developed an AI-powered voice bot using Twilio & Eleven Labs, automating customer interactions and reducing manual effort.

- **RAG – Retrieval-Augmented Generation**
  - Developed a UI application showcasing RAG model capabilities for the Dev.to Hackathon (PGVector Challenge).
  - Implemented chat interactions with website content, files, and Dev.to articles.
  - Added customizable text chunking and PGVector with PostgreSQL for optimized data retrieval.

- **Hirezen**
  - A Chrome Extension that assists interviewers by generating AI-based, role-specific questions, capturing feedback, and exporting it as a professional PDF report for HR.

SKILLS

- **Programming Languages:** MERN Stack, Python, Java, C, C++
- **Databases & Message Queues:** MongoDB, Meilisearch, Elasticsearch, RabbitMQ
- **Tools & Platforms:** Docker, Kubernetes, Azure
- **Generative AI & Machine Learning:** LLMs, LangChain, OpenAI API, Vector Databases, RAG

ACHIEVEMENTS

- **Culture Champion (Klenty)** - Recognized for consistently driving results through initiative, ownership, and technical expertise.
- **Star of the Month (ChefAtHome)** - Awarded for outstanding performance during the internship.
- **Hacktoberfest 2020** - Successfully contributed to open-source projects in an event by DigitalOcean.
- **1st Place - Tech Fest Quiz (2019)** - VV College of Engineering.
- **1st Place - Code Debugging (2018)** - Einstein College of Engineering.
- **1st Place - TechTonic (2019)** - National Engineering College.
- **3rd Place - KIT Hackathon (2019)** - Kalasalingam Institute of Technology.

EDUCATION

Computer Science Engineering | CGPA: 8.2 (2018–2022)
Einstein College of Engineering, Tirunelveli, Tamil Nadu