

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

- Generative AI**
  - Designed a workflow builder enabling LLMs to perform complex multi-step voice workflows.
  - Built an automated code review agent, reducing manual review effort and improving code quality.
  - Developed a real-time AI voice agent using Pipecat and open-source models.
  - Delivered a proof of concept for an AI-powered Smart Call Agent using Twilio and ElevenLabs.
- Cloud Infrastructure & DevOps**
  - Collaborated with DevOps to migrate production from Heroku to Kubernetes, implementing zero-downtime deployments and health probes to prevent gateway timeouts.
  - Collaborated with DevOps to migrate cloud-based solutions such as Redis, RabbitMQ,Meilisearch and Vault to self-hosted infrastructure.
  - Designed and implemented a custom domain tracking system in Kubernetes for customer mail handling, SSL management, and domain orchestration..
- Performance Optimization**
  - Reduced frontend build times by 70% (Webpack → Rspack), boosting developer productivity by 80%.
  - Cut TypeScript compilation from 2 minutes to 0.25 seconds using Rust-based SWC, accelerating backend testing and deployment.
  - Resolved a frontend memory leak in the Twilio package, eliminating customer complaints about slowness during heavy call usage.
- Incident Response & Debugging**
  - Mitigated a Redis overload during a DDoS attack, optimizing session handling and reducing Redis load by 90%.
  - Fixed critical production issues, including Kubernetes authentication cookie failures, AWS Lambda deployment crashes, and Nginx proxy misconfigurations..

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 & Frameworks:** MERN Stack (MongoDB, Express.js, React, Node.js), Python, Java, C, C++
- Databases:** MongoDB, Vector Databases
- Search Engines:** Meilisearch, Elasticsearch
- Tools & Platforms:** Git, GitHub, Docker, Kubernetes, Azure, AWS
- Generative AI:** LLMs, LangChain, OpenAI API, Retrieval-Augmented Generation (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 (2020/2023/2024)** - Successfully contributed to open-source projects in an event by DigitalOcean.
- 1st Place - Code Debugging (2018)** - Einstein College of Engineering.
- 1st Place - Tech Fest Quiz (2019)** - VV 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