

PROFESSIONAL SUMMARY

Software Engineer with experience in distributed systems, full stack development, and AI-powered applications. Active open-source contributor and ex-GSoC mentor with a strong focus on production-ready solutions.

EDUCATION

- **National Institute of Technology Karnataka** Mangalore, India
Bachelor of Technology in Computer Science; GPA: 8.7/10 *July 2019 – May 2023 (Grad: 2023)*

EXPERIENCE

- **Wells Fargo** Bangalore
Software Engineer *July 2023 - Present*
 - **Work Description:** Working in Credit Cards & Accounts team on features, including trackers and shipments, using Java microservices, Flask and Django. Designed microservices & Kafka streams handling 2 TB/day of card-transaction data with P99 < 150 ms, deployed on Azure. Worked on building AI agents, RAGs for powering chatbots.
 - **Tech Stack:** Java, Python, Flask, Django, Microservices, ReactJS, Docker, MongoDB, Azure, Kafka, RAGs
- **Wells Fargo** Bangalore
Software Engineer Intern *May 2022 - July 2022*
 - **Work Description:** Worked with Core Cards Acquisition Team to automate the generation of metrics by building data pipelines to automate metric generation; **reduced the generation time by 90%**. Worked with deep learning techniques as a part of credit risk assessment.
 - **Tech Stack:** Python, PyTorch, MySQL, ReactJS, Azure, Deep Learning
- **Blaze AI** Remote
Software Engineer *Aug 2021 - Sept 2022*
 - **Work Description:** Led development of a production-ready AI-based copilot system integrating Langchain and BERT, leveraging Apache Spark batch jobs, enabling seamless document generation and complex data querying at scale; **reduced contract-analysis turnaround time by 40%**.
 - **Tech Stack:** Python, ReactJS, PostgreSQL, Apache Spark, AWS EC2, Langchain, GraphQL, Neural Networks

PROJECTS & OPEN SOURCE

- **Socket Stats Utility for ns-3:** Designed and implemented a socket statistics utility within the ns-3 network simulator, emulating the functionality of Linux socket statistics. This tool enhances the capability of ns-3 by providing detailed socket-level insights, facilitating the analysis and debugging of network protocols in simulated environments. Project adopted by 80 contributors.
Tech Stack: C++, CMake, Linux, POSIX Socket APIs
- **Google Summer of Code - 2021 (INCF):** Worked on developing and optimizing core features, including implementing advanced data handling mechanisms and enhancing real-time collaboration capabilities. Refined the user interface to boost usability and responsiveness, leading to a more intuitive user experience and improved system efficiency.
Tech Stack: Node.js, MongoDB, AWS, Java, WebSockets, ReactJS, Docker

TECHNICAL SKILLS

- **Languages:** Python, Java, C, C++, TypeScript, JavaScript, C#
- **Technologies:** Docker, Kubernetes, PostgreSQL, Kafka, Django, Flask, Maven/Gradle, Redis/Memcached, Azure, AWS, ReactJS, CMake, MongoDB, Distributed Systems

ACHIEVEMENTS & PUBLICATIONS

- **Linux-like Socket Statistics Utility for ns-3:** Developed a utility for the ns-3 network simulator that emulates Linux-like socket statistics. Published in the Workshop on ns-3 2023 (WNS3 2023).
- **Mentor - Google Summer of Code 2022 & 2023:** Mentored a GSoC project focused on developing an efficient data layout for mass spectrometry data within the OpenMS framework in Golang, guided two contributors on large-scale bio-data processing pipelines; reviewed architecture, performance, and cost.