

Sanath Bhimsen



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PROFESSIONAL SUMMARY

A Software Engineer with 5 years of expertise, specializing in Python, Java, front-end development, building REST APIs, and databases. Proficient in architecting new features, designing user interfaces, and optimizing intricate business logic. Seeking the next professional challenge as a Software Engineer to innovate and drive transformative change, creating new features and enhancing existing systems.

SKILLS

- **Tools/Platforms:** C/C++ | Python | R | Java | HTML/CSS | JavaScript | Kotlin | Firebase | AngularJS | React | RESTful APIs | Flask | D3.js | Linux | Git | Jira | Jenkins | GitHub Actions | Docker | MySQL | MongoDB | Apache Flink | Node.js | Express
- **Expertise:** Front-End Engineering | Software Development | Performance & Scalability | Object Oriented Design | Functional Programming | Developing Microservices | Data-Driven Storytelling | User Interfaces
- **Interpersonal:** Public Speaking | Cross-Disciplinary Dialogue | Client Service | Problem Solving | Remote Team Collaboration

WORK EXPERIENCE

FIRMWARE ENGINEERING INTERN, INFINERA

Jun 2023 - Aug 2023

- Developed a Metric Collection Framework at the Firmware level and enabled the Infinera GX controller to analyze data in real-time.
- Converted complex technical information into Seaborn visualizations to align stakeholders' vision, implement process improvements, and **accelerate telecommunication speed**.
- Analyzed memory and CPU utilization, translating insights into interactive dashboards and actionable strategies.

SOFTWARE ENGINEER, SOPHOS TECHNOLOGIES

Jun 2019 - Jun 2022

- Assembled the Amazon VPC port's front end within the Sophos XG firewall alongside product managers, designers, and senior software engineers.
- Initiated and executed bug fixes across the entire system and **proactively drove stability & functionality** by incorporating feedback into new feature development and advocating for end users.
- Revamped the VPN UI on the XG Firewall to accelerate the version 19 release, streamline UI, and enhance UX.
- Steered comprehensive code reviews and ensured clean and optimized code integration at each project stage.
- **Achieved a 50% reduction in latency and page load times** by spearheading optimization efforts on key UI components.

PROJECTS

Addressing transient workload spikes with Cloud Bursting in Apache Flink

Feb 2023 - May 2023

Boston University

- Developed a solution for abrupt workload spikes in Apache Flink by integrating Cloud Bursting, an innovative offloading technique.
- Replaced the traditional back-pressure mechanism with Cloud Bursting to transfer the surplus workload to AWS, guaranteeing **optimal system performance during demand surges and reducing pipeline back pressure to zero**.

ATM/Banking Management System

Nov 2022 - Dec 2022

Boston University

- Implemented a banking app's modular system architecture with an object-oriented design approach to emphasize code reusability and utilized helper functions to simplify development.
- Created an intuitive interface for account management, transaction processing, and daily report access, utilizing the **Model-View-Controller (MVC) design pattern** throughout the application's development.

EDUCATION

M.S in Computer Science - Boston University, Boston, MA

Expected Dec 2023

Relevant Coursework: Graduate Algorithms, Object Oriented Design Principles, Streaming And Event Driven Systems, Android Mobile App Development(Kotlin).

B.Tech in Computer Science - PES University (Graduated with Distinction)

Aug 2015 - Aug 2019

Specialization: Data Science