Sayali Bayaskar

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EDUCATION

Master of Science, Software Engineering   Expected May 2025
San Jose State University, San Jose, CA   GPA – 3.73 /4.0
Courses: Enterprise Distributed Systems, Application Development and Software Platforms, Cloud Technologies, Data mining

Bachelor of Technology, Information Technology   April 2019
Veermata Jijabai Technological Institute, India

TECHNICAL SKILLS

- Languages: Java, C++, C#, Kotlin, Python, JavaScript, MySQL, MongoDB, PostgreSQL, SQLite
- Tools: Agile, GIT, Linux, Visual Studio Code, Android Studio, Azure, AWS
- Web Framework: Flask, PHP, RESTful API, Web Services, jQuery
- Educational proficiency: JUnit, HTML/CSS, GraphQL, ZeroMQ, Docker, gRPC, cURL

PROFESSIONAL EXPERIENCE

Software Engineering Intern, Pure Storage, Santa Clara   May 2024 - Aug 2024

- Engineered enterprise-grade **C++** code for FlashArray's Purity OS to enhance context information for read failures across multiple software layers in an asynchronous, multi-threaded, and highly concurrent environment.
- Improved real-time error filtering and system reliability by creating a mechanism to access high-level context for read errors.
- Optimized **RAID-6** and high-availability configurations by developing specialized solutions to identify and log additional details on drive read failures accurately, boosting system diagnostics in response to critical read failure scenarios.
- Executed comprehensive **unit tests** to rigorously simulate read errors and device failures, ensuring robust error type identification through these advanced context propagation mechanisms.

Software Developer, PowerPack, India   Nov 2021 - Apr 2023

- Delivered a **mobile** ERP application for **Android** using **Kotlin** to increase mobility and ease of transaction by **30%**.
- Designed and executed **C# web services** to streamline mobile and desktop application data transfer.
- Integrated third-party **RESTful API**s with current software to expand app functionality and increase the user base by **15%**.
- Spearheaded the development and implementation of an appointment booking website for a health center to optimize over **40%** of daily appointments.

Software Engineer Consultant, PricewaterhouseCoopers, India   Jul 2019 - Nov 2021

- Configured and maintained Azure **CI/CD pipelines**, including automated builds and deployments.
- Developed mobile application for Microsoft Dynamics B2C customers.
- Deployed SSRS reports and **RESTful API** integration with various 3rd party applications, including Twilio and SAP.

PROJECT EXPERIENCE

Virtual AI Pet, Pure Storage AI Hackathon   June 2024

- Leveraged **OpenAI's GPT-3.5** to build a conversational agent for real-time, personalized user interactions and stress relief.
- Implemented a notification system that alerts users to perform regular health reminders using timed OpenAI API calls.
- Designed a user interface with **Streamlit**, enabling user interaction, and personalized responses promoting mental health through fun.

Cloud-Based AV Fleet Management Platform, San Jose State University   Jan 2024 - May 2024

- Deployed a scalable real-time AV fleet management platform on **Amazon EC2** with **MongoDB** for data analytics.
- Created **Flask**-based **RESTful APIs** for real-time data collection and processing from the Carla AV simulator.

Consistent Hashing for Apache Arrow Flight, San Jose State University   Nov 2023 - Dec 2023

- Implemented **consistent hashing** for load balancing across **Apache Arrow Flight** server nodes with dynamic node management.
- Developed collision control and optimized data replication for speed and efficiency.

Movie Theater Club application, San Jose State University   Aug 2023 - Dec 2023

- Developed a full-stack movie booking application using **Flask**, **PostgreSQL**, and **HTML/CSS**, deployed on **AWS EC2** with load balancing.
- Collaborated in an agile team to design and implement cloud-based solutions, applying **Scrum** and **XP** practices.