Maheshwari Shashikant Bhandare
mbhandare@scu.edu | (669) 264-4877 | linkedin.com/in/maheshwari22/ | GitHub

EDUCATION

Santa Clara University | Master of Science, Information Systems | GPA 3.9 **June 2026**
Relevant Courses: Object-oriented analysis and programming, Data Analytics with Python, Database analysis and design, Natural Language Processing
University of Pune, India | Bachelor of Engineering, Mechanical | GPA 3.55 **May 2019**

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C++, SQL, HTML, CSS
Databases & Cloud: MySQL, PostgreSQL, MongoDB, Firebase, AWS (S3, EC2)
Technologies: Spring Boot, Hibernate, React, Angular, Node.js, Express, Vue, Django, jQuery, Redux, Axios
Libraries: NumPy, Pandas, Matplot-lib, Scikit Learn, Beautiful soup, Tensorflow, Selenium

EXPERIENCE

Dassault Systems | Software Engineering Specialist **Jan 2022 - Jul 2024**

- Implemented an end-to-end document management system using **Java Spring Boot, Elasticsearch, ReactJS**, and **AWS S3**, achieving 30% faster data retrieval and efficiently serving 10,000+ weekly requests.
- Reduced API response times by 40% for high-traffic endpoints through **Redis caching, SQL indexing** and asynchronous processing, significantly enhancing performance and scalability.
- Integrated **JWT** with **Spring Security**, enabling secure, stateless authentication and **role-based access control**, reducing database load by 30% and embedding roles directly in tokens for streamlined authorization.
- Developed responsive, interactive components in **ReactJS** with **Redux** for state management and React Router for seamless navigation, delivering a consistent user experience across complex workflows.
- Enhanced offline capability by implementing **Progressive Web App (PWA)** techniques, including service workers and offline caching, reducing load times by 30% and boosting user engagement in low-connectivity environments.
- Reduced technical debt by 30% by developing modular shared services using **Spring Boot**, streamlining functionality and improving code maintainability.

Tata Consultancy Services | Frontend Developer **Jul 2019 - Jan 2022**

- Developed front-end modules for mobile and web banking applications using **Angular**, **TypeScript**, and **NgRx**, enhancing functionality through optimized state management and achieving a 20% reduction in transaction processing time.
- Integrated **OAuth 2.0** authentication and JWT-based session management on the frontend, securely managing sessions for over 5 million users and strengthening application security.
- Contributed to Webpack 5 migration for an Angular application, reducing bundle size by 30% through code splitting and tree shaking, resulting in faster load times and improved performance.
- Resolved critical customer issues within SLA, performed debugging and code optimization based on multiple change requests to ensure seamless functionality and system stability.
- Mentored junior engineers on project tasks, development, and system setup and participated in code reviews, enhancing team efficiency and project outcomes.

PROJECTS

Space Events Pub-Sub system (ReactJS, MongoDB, Flask, Docker, Apache Kafka)

- Designed space events daily notifications system using Kafka as central broker, **MongoDB** to store user subscription data along with Flask to handle backend services.
- Dockerised the entire application by bridging multiple service containers.

E-commerce Cart (Java Spring Boot, Session Management)

- Built a shopping Cart in a team of 3, following Model View Controller architecture using **Java Spring Boot**.
- Added dynamic product suggestion feature to users based on the past addition removal of products from the cart. Proved to increase the spending time on the website by 30%.

Personal Finance Tracker (MongoDB, Express.js, ReactJS, Node.js, Firebase Authentication, Axios)

- Built a personal finance tracking application that allows users to record expenses, set budgets, and visualize financial trends through interactive charts. Utilized Chart.js for data visualization and integrated authentication with Firebase.
- Employed **Axios** for API calls to manage user data.

Crash Data Analysis System (Python, Pandas, Scikit-Learn, Seaborn**)**

- Developed a crash analytics system in **Python** using **Pandas** and **Seaborn**, revealing key trends in 180,000+ records and boosting insights by 20%.
- Used **Scikit-Learn** to train models predicting crash severity with 85% accuracy, identifying high-risk scenarios and contributing factors.