

Saurabh Kalelkar

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SUMMARY

Dynamic **Software Developer** with **3+ years of experience** in building scalable applications and automation frameworks using **Java, Spring, React, and Python**. Skilled in **RESTful APIs, microservices, and database optimization**, with proven success in **enhancing efficiency**. Experienced in **Agile Development** and **cross-functional collaboration**, delivering **high-quality, custom solutions** in academia and the BFSI domain.

EDUCATION

Syracuse University, College of Engineering and Computer Science | Syracuse, NY *August 2022 – May 2024*
Master of Science, Computer Science **GPA: 3.6/4.0**

• **Relevant Courses:** Operating Systems, Object Oriented Programming, Design and Analysis of Algorithms, Computer Architecture, Social Media Data Mining, Database Management, Cryptography, Applied Natural Language Processing.

Savitribai Phule Pune University, Modern College of Engineering | Pune, MH, India *August 2014 – June 2018*
Bachelor of Engineering, Computer Engineering **GPA: 8.5/10.0**

• **Relevant Courses:** Data Structures, Software Engineering, Theory of Computation, Computer Networks.

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python, JavaScript, TypeScript
Web Development: HTML5, CSS3, Express.js, React, Node.js, Bootstrap, Tailwind CSS
Frameworks and API Integration: Spring Framework, Django, REST APIs, GraphQL
Databases: Oracle, MongoDB, MySQL, PostgreSQL, MS SQL Server, Redis
Testing and Debugging: JUnit, Selenium, Postman
Cloud and DevOps: AWS, CI/CD Pipelines, Docker, Kubernetes, Jenkins
VCS and Program Management: Git, Software Development Life Cycle, Agile Methodologies, Jira
Fundamental Concepts: Data Structures & Algorithms, OOP Concepts, Design Patterns

WORK EXPERIENCE

Syracuse University, College of Engineering and Computer Science Syracuse, NY
Software Developer | *Java, Spring Framework, Microservices, React, MySQL* *July 2024 – Present*

- Built a **microservices-based** Campus Shuttle Management system using Java, Spring, & REST APIs, for **1,000+ users**.
- Developed a REST API for **seat reservations**, handling **200+ daily requests** and ensuring **seamless user interaction**.
- Designed a **scalable architecture** with Redis caching and MySQL database, **reducing response times by 40%**.
- Implemented authentication with JWT and Spring Security, **ensuring secure access** for students and administrators.
- Engineered an **intuitive React.js frontend** with **Redux for state management**, improving user engagement by 50%.
- Built **seamless frontend-backend integration** with Axios, optimizing API calls and **reducing load times by 20%**.
- **Integrated WebSockets** for real-time shuttle tracking, achieving a **35% latency reduction** for live location updates.
- Dockerized the system and orchestrated **deployments with Kubernetes**, ensuring **scalability and high availability**.

Tata Consultancy Services Pune, MH, India
System Engineer | *Python, Oracle, Shell Scripting, NumPy, Pandas, Git, Jira, Informatica* *October 2018 – July 2022*

- Designed an **automation framework** in **Python**, **boosting efficiency by 25%** through **efficient resource utilization**.
- Delivered **100% on-time milestones** by **collaborating with cross-functional teams** to deliver custom BFSI solutions.
- **Reconciled** Oracle-Informatica workflows using **10+ Python scripts**, ensuring **data integrity** and **reliability**.
- **Automated** log parsing and reconciliation for **10,000+ files**, ensuring **data consistency** and **25% less manual effort**.
- Wrote shell scripts for **ERP integration**, improving team productivity and **reducing report turnaround** by 15%.
- **Improved team efficiency by 30%** with **Agile practices**, including **task allocation** and **sprint planning**.

PROJECTS

Movies Review App | *Java, Spring Boot, React, MongoDB* *github.com/saurxbh/movies-review*

- Built a **full stack web application** using Java, React & MongoDB, implementing **modular architecture** for scalability.
- **Streamlined RESTful APIs**, enhancing **client-server communication** and **reducing data latency by 20%**.
- Leveraged **Axios** for seamless HTTP requests between React and Spring Boot, **improving data-fetching speed** by 25%.
- Ensured **robust API communication** with **comprehensive error handling** and response management.

Products Store | *MongoDB, Express.js, React, Node.js* *github.com/saurxbh/products-store*

- Built an **inventory** using the **MERN stack**, ensuring **seamless data flow** across components through **efficient routing**.
- **Enhanced database performance** by 25% using **MongoDB indexing** and **schema design** for faster query execution.
- Managed **asynchronous data flows** between client and server, **improving synchronization speed** by 20%.
- Ensured **dynamic UI updates** and smooth communication using **React hooks** and **state management**.