

Saurabh Kalelkar

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SUMMARY

Dynamic **Software Developer** with **4+ 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

Fundamental Concepts: Data Structures & Algorithms, OOP Concepts, Design Patterns, SDLC, REST APIs
Programming Languages: Python, C++, Java, JavaScript, C, Shell Scripting
Web Development: HTML5, CSS3, Express.js, React, Node.js, Bootstrap, Tailwind CSS
Databases: Oracle, MongoDB, MySQL, PostgreSQL, MS SQL Server, Redis
Cloud and DevOps: AWS, CI/CD Pipelines, Docker, Kubernetes, Jenkins
Tools and Frameworks: VS Code, IntelliJ, PyCharm, Git, Informatica, Jira, Spring Framework, Django

WORK EXPERIENCE

Syracuse University, College of Engineering and Computer Science Syracuse, NY
Software Developer | *Java, Spring Framework, Microservices, Redis, 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%**.
- **Integrated WebSockets** for real-time shuttle tracking, achieving a **35% latency reduction** for live location updates.

Adobe Remote, India
Software Developer | *Java, Spring Framework, Kubernetes, Docker, Postman* *May 2021 – July 2022*

- **Optimized RESTful APIs**, improving **data processing speed** by 20%, enhancing **application performance**.
- Wrote **efficient code** for troubleshooting issues, **resolving 30+ tickets**, and for **seamless API integration**.
- **Collaborated with teams** to deliver **robust and scalable solutions**, **reducing time-to-market** for features.
- **Streamlined CI/CD pipelines**, boosting deployment efficiency by **30%** with **automated build processes**.

Tata Consultancy Services Pune, MH, India
System Engineer | *Python, Oracle, Shell Scripting, NumPy, Pandas, Git, Jira, Informatica* *October 2018 – April 2021*

- 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, **improving data-fetching capabilities** by 25% with **robust error handling**.

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.
- Ensured **dynamic UI updates** using **React hooks** and **state management**, **improving synchronization speed** by 20%.