

Saurabh Kalelkar

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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

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* *July 2024 – Present*

- Developed a microservices-based pilot system for Campus Shuttle Management using Java, Spring Boot, and RESTful APIs that enables real-time tracking and efficient seat reservations for over 1,000 users across campus.
- Implemented a scalable architecture with Redis caching and distributed MySQL databases, reducing response times by 40% and enhancing user experience through real-time shuttle tracking updates.
- Integrated real-time shuttle tracking using WebSockets, enabling live location updates for users with an average latency reduction of 35%, enhancing real-time responsiveness and user satisfaction.

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

- Spearheaded the design and enhancement of a Python-based automation testing framework, improving testing efficiency by 25% through streamlined architecture, optimized codebase and efficient resource utilization.
- Collaborated with cross-functional teams comprising of business analysts and developers to implement tailored strategic solutions in Banking & Financial Services domain, achieving a 100% on-time project delivery rate for client milestones.
- Developed custom Python validation scripts for 10+ complex Oracle-Informatica workflows, enhancing data integrity and operational reliability through precise data validation methods and comprehensive workflow analysis.
- Slashed manual labour cost by 25% by developing and automating log parsing, handling ingestion of 10,000 flat files(CSV, XML, JSON), and generation of validation reports of reconciliation ensuring consistency between raw and processed data.
- Created shell scripts that automated report transfers from Unix to SAP S/4HANA, improving data accessibility for 15+ team members and streamlining ERP data integration, resulting in 15% faster project turnaround times.
- Employed Agile practices, improving team efficiency by 30% with clear communication, task allocation & sprint planning.

PROJECTS

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

- Built a loosely-coupled full-stack web application using Java Spring Boot, React, and MongoDB by implementing RESTful APIs and encouraging separation of concerns. Optimized client-server communication reducing data latency by 20%.
- Utilized Axios for seamless HTTP requests between React and the Spring Boot backend, improving data fetching efficiency by 25% and ensuring robust API communication with error handling and response management.

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

- Built a RESTful API with Express and Node.js, reducing API response times by 30% through efficient routing and error handling. Integrated MongoDB, optimizing data persistence by 25% using indexing and schema design.
- Managed asynchronous data flows between client and server, improving data synchronization speed by 20%. Ensured dynamic UI updates & smooth communication between client and server using React hooks and state management.

CRM Portal | *Python, Django, Bootstrap, MySQL* *🌐 github.com/saurxbh/crm-portal*

- Engineered a CRM web application, integrating Django's ORM to implement full CRUD operations for seamless customer data management. Leveraged Django's model-view-template (MVT) architecture, boosting efficiency by 30%.
- Configured Django's built-in admin panel by creating a superuser, granting secure access control to system administrators. Ensured scalable application deployment by using Django's authentication system to manage user roles and permissions.