Saurabh Kalelkar

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SUMMARY

Software Developer with **3+ years of experience** in building **scalable, high-performance applications** and automation frameworks using **Java, Spring, React, and Python**. Designed **microservices** and **RESTful APIs** handling 5000+ daily requests, improving user engagement by 50%. **Optimized databases** (MySQL, PostgreSQL, MongoDB), cutting response times by 40%. Led **cloud deployments** with AWS, Docker, and Kubernetes, ensuring 99.9% uptime. Adept at **Agile development** and **cross-functional collaboration**, delivering secure, user-focused solutions in academia and BFSI. Passionate about building robust systems that drive innovation and performance.

WORK EXPERIENCE

Syracuse University, College of Engineering and Computer Science   Syracuse, NY
Software Developer | *Java, Spring Framework, Microservices, React, MySQL*   *July 2024 – Present*
- Developed **microservices** for the Campus Shuttle Management System using Spring Framework, serving **1,000+ users**.
- Engineered a REST API for **seat reservations**, handling **5000+ daily requests** & ensuring **smooth 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%.
- **Integrated frontend-backend seamlessly** using Axios, optimizing API calls and **reducing load times by 20%**.
- **Implemented 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.**

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

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**.

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*
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*