

OBJECTIVE

A focused professional, targeting assignments in Software Engineer with a growth-oriented organization of high repute.

CONTACT

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Pune, Maharashtra
[GitHub](#)
[LeetCode](#)
[Codechef](#)

CORE COMPETENCIES

Problem Solving & Algorithms
Performance Optimization
Data Structures & Algorithms
Microservices Design Principles
System Design (HLD & LLD)
Security Best Practices
High-Level Design (HLD) & Scalable Architectures
Concurrency & Multithreading

IT SKILLS

Programming Languages: C, C++, Java, Python, TypeScript, Scala
Software Technologies: Servlets and JSP
Messaging Technologies: JMS, Kafka, JMS, RabbitMQ
Security & Authentication: JWT, OAuth2, Keycloak, SSO, MFA
Orm: Hibernate, Ibatis
Database: Oracle, MySQL, MongoDB
System Design (HLD/LLD): Distributed Systems, Scalable Microservices, Load Balancing, Caching, Event-Driven Architecture
Methodologies: Agile, Microservices, Machine Learning, Event Driven
Operating System: Windows and Ubuntu
UI/Scripting languages: JavaScript, Angular 15+
Tool: Docker, Git, Postman, Jupyter Notebooks
Cloud / Virtualization: AWS, Azure
Data Technologies: Apache Spark, Kafka
Data Structures & Algorithms: Graphs, Trees, Dynamic Programming, Greedy Algorithms, Bit Manipulation

CERTIFICATIONS

- NPTEL Java Programming
- [IBM Advanced Data Science Specialization](#)
- [Data Mining Illinois University Specialization](#)
- IIT Kanpur Full Stack Development

EDUCATION

B.Tech. Computer Science Engineering
Government College of Engineering
Aurangabad, 2021, CGPA: 8.1

SAURABH SANJAY SHINDE

PROFILE SUMMARY

- A detail-oriented professional with **nearly 3 years** in Software Engineering, focusing on **Full-Stack Development**.
- Presently working as **Senior Software Engineer at Accelya Solutions**, directing the development of impactful projects aimed at improving operational efficiency and boosting user engagement.
- Acquired substantial knowledge in the principles of **microservices design, optimized performance, agile methodologies**, which have been instrumental in delivering intricate software solutions.
- Displaying comprehensive knowledge of cloud computing strategies, especially in AWS and Azure, which supports the deployment of scalable and robust applications.
- Earned recognition as **the Best Performer for 2024**, underscoring outstanding contributions to project achievements.

WORK EXPERIENCE

Senior Software Engineer | Accelya Solutions | Dec'21 – Present

Responsibilities:

- Spearheading the design and implementation of a microservices architecture for the Offer and Order Project, significantly enhancing system scalability and resilience.
- Developing and integrated RESTful APIs with front-end applications**, resulting in improving data retrieval efficiency and user experience.
- Conducting comprehensive security audits and implementing industry best practices to mitigate vulnerabilities while ensuring compliance with regulatory standards.
- Optimizing application performance through advanced caching strategies, code optimization and database query enhancements, **achieving a notable 70% reduction in system latency**.
- Developed a distributed event-driven system** using Kafka & RabbitMQ, reducing inter-service dependency.
- Designed and managed distributed transactions across microservices, ensuring data consistency and reliability
- Designed scalable, fault-tolerant microservices** to handle **millions of transactions/day** with **low latency**.
- Managing the deployment process, code integration, testing, and production release to ensure seamless feature roll-out.

PROJECTS

Company Name: Accelya Solution Private Limited

Project name: Offer and Order

Skill Sets: Java 8, Spring boot, Rest API, Microservices, RabbitMQ, Docker, JWT Spring Security, Transaction Management, Angular

Client: Emirates, Finnair, Scandinavian Airlines

Period: Mar'22 – Present

Role: SDE 2

Description: Offer and Order is a microservices based air-cargo management application.

Responsibilities:

- Designed and implemented a robust IAM server for secure user authentication and compliance with security standards.
- Developed APIs for order management, streamlining workflow and enhancing efficiency.
- Created APIs for offers, integrating seamlessly with front-end applications to boost user engagement.
- Built RESTful APIs with Spring Boot for smooth microservices integration.
- Optimized application performance using multithreading, improving speed and responsiveness under load.
- Conducted security audits and implemented best practices to strengthen application security.
- Achieved a 70% reduction in system latency through performance tuning and code refactoring.
- Maintained code quality with Git for version control and JUnit for Unit Testing.
- Managed deployment processes to ensure error-free feature launches.

Company Name: Accelya Solution Private Limited

Skill Sets: Java 8, Spring, Rest API, Microservices, JMS, Transaction Management, Angular

Project Name: Price Influencer

Client: Scandinavian Airlines

Period: Sep'23 – Present

Role: SDE 2

Description: Changing pricing for offers based on rules

Responsibilities:

- Following coding standards to ensure consistency and quality.
- Crafting optimized code to efficiently apply business rules and adjust pricing models, enhancing system performance and transaction accuracy.
- Developed and implemented event-driven architecture to facilitate real-time data processing and improve system responsiveness.
- Developing RESTful APIs with Spring Boot for seamless integration between microservices and external systems, supporting scalability and flexibility.

- Board of Higher Secondary Education Pune, **2017, Percentage: 80.15**
- Board of Secondary Education, Pune, **2015, Percentage: 88.20**

EXTRACURRICULAR ACTIVITIES

- Achieved **2nd place** in the Wings College Coding Event.
- Ranked in the top 20 of the Code E Bit competition organized by the IEEE subsection in Delhi.
- Attained a 5-star coder status on CodeChef, achieving a highest global rank of **246 out of 29,626** participants.
- Reached a rank of 4,974 on LeetCode.

NGO

- Served as a Core Team Member for the **Gopali Youth Welfare Society** from June 2020 to May 2021.
- Acted as **Technical Committee** Member at the Government College of Engineering, Aurangabad from August 2018 to May 2020.

PERSONAL DETAILS

Date of Birth : 16th June 1998
Languages Known : English, Hindi, Marathi

- Implementing asynchronous calls to boost application responsiveness and optimize resource usage.
- Designed and managed distributed transactions across microservices, ensuring data consistency and reliability.
- Conducting unit testing to ensure code quality and functionality.

Company Name: Accelya Solution Private Limited
Skill Sets: Java 8, Spring Security, Rest API, Microservices,SSO,MFA,Keycloak
Project Name: Identity and Access Management (IAM)
Client: Product
Period: Jun'22 – Present
Role: SDE
Description: Implementing critical security changes such as bcrypt encryption, Multi-factor Authentication (MFA), and Single Sign-On (SSO) to improve system security and user experience.
Responsibilities:

- **Bcrypt Implementation:** Integrated bcrypt hashing for secure password storage and enhanced data protection by using strong encryption mechanisms.
- **Multi-factor Authentication (MFA):** Implemented MFA to improve the security of user accounts, requiring additional verification beyond just passwords for more robust protection.
- **Single Sign-On (SSO) Integration:** Enabled seamless user experience by implementing SSO across multiple applications, allowing users to authenticate once and access various systems without re-entering credentials.
- **Implemented Low-Level Design (LLD) for secure multi-user authentication, integrating OAuth2 & JWT for seamless SSO.**
- **Keycloak Integration:** Integrated Keycloak for centralized authentication and authorization management, enabling streamlined login processes, user roles, and access control across the platform.

RESEARCH PAPERS

Paper Name: Instructions with Complex Control-Flow Entailing Machine Learning
Published in: [2022 IEEE/ACIS 23rd International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing \(SNPD\)](#)
Publisher: IEEE
Technologies: Python, Neural Network, Reinforcement learning
Description:
A Reinforcement learning is when the system is allowed to make its own decisions based on what it learns. There are 2 types of observations, formative and summative. These observations have been identified as crucially important for neural network training of complicated tasks with conditional control flow. The central theme of this paper is applying reinforcement learning to follow instructions with complex control-flow. The authors study a special but important subset of multi- task reinforcement learning problems, namely instructions with complex control-flow in this work. They develop an encoding and attention architecture to achieve the research objective.

Paper Name: Leveraging Conditional Generative Adversarial Networks for cosmic microwave background separation.
Published in: [2024 IEEE/ACIS 22nd International Conference on Software Engineering Research, Management and Applications \(SERA\)](#)
Publisher: IEEE Computer Society
Technologies: Python, Neural Network, Generative Adversarial Network
Description:
Cosmic microwave background holds multiple clues to the development of the universe. Because of its cosmic nature, it almost impossible for researchers to access this information by conventional means. However, with the help of generative adversarial network (GAN) augmented with a deep learning approach, they could finally change this. Generative adversarial network is a rule-based, machine learning technique that uses opportunities in data and fantasy worlds. The author in this research implements GAN for cosmic microwave background (CMB) separation problem. They report the end-results by leveraging machine learning premised on GAN. To validate the robustness of our network, they perform several tests against different foreground models by increasing the amplitude of each component.