

# TANMAYEE KULKARNI

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## SUMMARY

Senior Software Engineer with 5+ years of experience designing scalable, cloud-native systems and high-performance applications. Skilled in Java, Python, and API integration, with hands-on expertise in integrating AI-powered solutions to drive automation.

## WORK EXPERIENCE

### HSBC Holdings Plc. | New York, United States

Aug 2024 – Present

#### Senior Software Engineer

- Architected and deployed scalable end-to-end full-stack features for the IT Service Portal with Infrastructure Automation Platform Core team using SpringMVC, Javascript, and microservices, driving 75% customer engagement and \$2M of annual cost savings.
- Integrated Generative-AI powered automation framework into the IT Service Portal using AI-native principles, enabling centralized UI-based management of automation workflows and improving operational efficiency by 60% of REST APIs and Scrum/TDD setup.
- Resolved critical issues across 6 complex codebases, delivering business process automation and production support, thereby reducing over 3700 manual hours annually and deriving test cases as well using testing frameworks like JUnit.

### Alltech Consulting Services, Inc. | Remote, United States

#### Software Engineer

July 2023 – Aug 2024

- Engineered full-stack features for cloud-native applications using SpringMVC and Hibernate ORM, bringing efficiencies like a 20% reduction in feature implementation time and a significant improvement in security measures efficiency by 25%.
- Led code refactoring for distributed computational services architecture with Apache Kafka, improving system resilience by 0.5% increase and handling of data-intensive operations more efficiently, along with focusing on the high-performance of systems.
- Leveraged expertise in Go, Typescript, and ReactJS to build REST APIs and optimized front-end components, driving user engagement and feature comprehension by 35%. Configured advanced monitoring systems using Apache Kafka.

### Capgemini Ltd. | Mumbai, India

Oct 2018 – Aug 2021

#### Senior Software Engineer

- Spearheaded three end-to-end cloud project deployments in an agile environment, achieving annual cost savings of \$4M.
- Revamped product design to modularize and automate legacy code bases to modern development standards with cross-functional teams, reducing time taken to perform disaster recovery operations by over 200% using Terraform.
- Utilized public cloud offerings like AWS and Google Cloud to deploy scalable backend solutions in a SaaS environment, ensuring high availability and fault tolerance. Enhanced user experience with responsive UI elements in NodeJS by 2x the previous model.
- Collaborated with cross-functional stakeholders, including product managers, and designers to enhance UX of 12 workflow modeling nodes in AngularJS, emphasizing page load time and ensuring code enhancements through meticulous code reviews.

## SKILLS

**Languages & Frameworks:** Python, Java/J2EE, Go, SQL, Javascript, Spring Boot

**Tools and Libraries:** RESTful Web Services, JSP, AngularJS, ReactJS, JUnit, Apache Kafka, TensorFlow, Insomnia

**Cloud and CI/CD:** Google Cloud Platform(GCP), AWS(EKS, S3, Lambda), Ansible, Prometheus, Jenkins, Docker, Kubernetes

**Database:** MySQL, OracleDB, PostgreSQL (RDBMS), MongoDB, NoSQL

**Other:** IaaS/SaaS, GitHub, Co-Pilot, JIRA, Scrum, Microservices, TDD/BDD, Agile, Splunk, SDLC, Distributed systems

**Certification:** SAP BusinessObjects Access Control 10.0 – Global Certification, Secure Code Warrior - Java J2EE

## LEADERSHIP EXPERIENCE

### Association of Computer Engineering Society Of India

Aug 2016 - May 2018

#### Vice-President

- Responsible for representing the committee at various technical forums across the nation, thereby engaging membership by 60%.

## EDUCATION

### Binghamton University - The State University of New York, United States

May 2023

Master of Science in Computer Science

### Savitribai Phule Pune University, Pune, India

May 2018

Bachelor of Engineering in Computer Engineering