

TANMAYEE KULKARNI

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SUMMARY

A product-driven software engineer with 5+ years of experience building scalable, cloud-native systems using Java, Python, ReactJS, Typescript, and REST APIs. Skilled in designing high-performance backend services, orchestration and distributed systems, including AI/LLM-powered automation to optimize data processing and accelerate product growth.

WORK EXPERIENCE

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

Aug 2024 – Present

Senior Software Engineer

- Designed and deployed scalable backend services for the IT Service Portal with Infrastructure Automation Platform Core team using Python, Typescript, Azure, and microservices, driving 75% customer engagement and ~\$2M of annual cost savings.
- Integrated Generative-AI powered orchestration framework using AI-native principles, optimized database and caching interfaces (PostgreSQL, Redis), improving operational efficiency and test coverage by 60% using REST APIs in Scrum/TDD setup respectively.
- Optimized resolution of critical issues across 6 complex codebases, delivering business process automation and production support, thereby reducing over 3700 manual hours annually and deriving test cases using robust testing frameworks like JUnit.

Alltech Consulting Services, Inc. | Remote, United States

July 2023 – Aug 2024

Software Engineer

- Engineered full-stack features for cloud-native applications using Java, Typescript, ReactJS, SpringMVC 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, Python, GraphQL to build microservices and optimized front-end components, driving user engagement and feature comprehension by 35%. Configured advanced monitoring systems using Apache Kafka.

Capgemini Ltd. | Hybrid, Mumbai, India

Oct 2018 – Aug 2021

Senior Software Engineer

- Spearheaded three end-to-end cloud-native 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 Azure to deploy scalable backend solutions in a SaaS environment, ensuring high availability and fault tolerance. Enhanced user experience with responsive UI elements in Typescript by 2x the previous model.
- Collaborated with cross-functional stakeholders, including product managers, and designers to enhance UI/UX of 12 workflow modeling nodes in NodeJS, emphasizing page load time and ensuring code enhancements through meticulous code reviews.

SKILLS

Languages & Frameworks: Python, Java/J2EE, Javascript, Typescript, Go, SQL, REST APIs, Spring MVC

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

Cloud and CI/CD: Microsoft Azure, AWS(EKS, S3, Lambda), Jenkins, Ansible, Prometheus, Docker, Kubernetes

Database: MySQL, OracleDB, DynamoDB, GraphQL, PostgreSQL, MongoDB

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