TANMAYEE KULKARNI

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SUMMARY

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

WORK EXPERIENCE

HSBC Holdings Plc. | Hybrid, New York, United States   **Aug 2024 – Present**
Senior Software Engineer

- Designed and deployed scalable, secure cloud infrastructure services for the IT Service Portal with Platform Core team using Java, TypeScript, Kubernetes, AWS, and microservices, driving 75% customer engagement and ~$2M of annual cost savings.
- Integrated GenAI powered orchestration framework using LLama & Co-Pilot, optimized database and caching interfaces like PostgreSQL, 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 using multi-threading programming delivering business process automation, thereby reducing over 3700 manual hours and deriving test cases using robust frameworks like JUnit.

Alltech Consulting Services, Inc. | Remote, United States   **July 2023 – Aug 2024**
Software Engineer

- Engineered full-stack features for cloud-native web applications using Java, TypeScript, ReactJS, Spring Boot bringing efficiencies like a 20% reduction in feature implementation time and a significant improvement in security measures efficiency by 25%.
- Mentored junior engineers, led design reviews and established coding standards across teams to ensure scalability and maintainability for distributed computational services architecture, thereby improving system resilience by 0.5% increase.
- Leveraged expertise in Go, Python, GraphQL, to build microservices and optimized front-end components using object-oriented design principles, driving user engagement by 35%. Configured infrastructure frameworks using Kubernetes clusters.

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 using OWASP with cross-functional teams, reducing time taken to perform disaster recovery operations by over 200% using Prometheus.
- Utilized public cloud offerings like AWS and GCP to deploy scalable backend and governance solutions in a SaaS environment, ensuring high availability and fault tolerance. Enhanced user experience with responsive UI in Javascript by 2x the previous model.
- Partnered with cross-functional stakeholders, including PMs, UX, and infra 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: Java/J2EE, Python, TypeScript, Go, SQL, RESTful APIs, SpringBoot
Tools and Libraries: RESTful Web Services, NodeJS, ReactJS, JUnit, Apache Kafka, TensorFlow, Insomnia
Cloud and CI/CD: Microsoft Azure, AWS (EKS, S3, Lambda), GCP, Jenkins, Ansible, Prometheus, Docker, Kubernetes
Database: PostgreSQL, MySQL, MongoDB, OracleDB, DynamoDB, GraphQL
Other: SaaS/IaaS, GitHub, LLama, Co-Pilot, JIRA, Scrum, Microservices, TDD/BDD, Agile, Splunk, Object-oriented, Distributed systems
Certification: SAP BusinessObjects Access Control 10.0 – Global Certification, Secure Code Warrior - Java J2EE 2024

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