Swanand Kavitkar

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EDUCATION

Master of Computer Science, Arizona State University — August 2022 - May 2024
Coursework: Cloud Computing, Distributed Database Systems, Mobile Computing — **GPA 4.0**

Bachelor of Computer Engineering, Vishwakarma Institute of Technology — August 2015 - May 2019
Coursework: Data Structures, Software Engineering, Object Oriented Programming, Database Management — **GPA 3.98**

SKILLS

Programming Languages: Java, Kotlin, Python, Javascript, Typescript, C++, C
Android Development: MVVM, Compose, Jetpack, LiveData, State Flows, Kotlin Coroutines, View Model, Data Binding
Frontend Development: React, Angular, CSS, Tailwind CSS, Bootstrap, Jquery, HTML, Material UI
Backend Development: Microservices, PostgreSQL, MySQL, Spring Boot, ExpressJS, Node.js, Flask, REST API, Hibernate
AWS Cloud: AWS EKS, S3, EC2, Dynamo-DB, API-Gateway, Lambda, Transcribe, Comprehend, Cognito, SQS
DevOps: Kubernetes, Container Orchestration, Docker, Cluster Management, Monitoring and Logging, Resource Management
Software Development Practices: Agile, Scrum, Jira, Test Driven Development, Github, DevOps, Continuous Integration

EXPERIENCE

Software Engineer — July 2019 - May 2021
HSBC — *Pune, India*

- Developed the Oman mobile banking application with **seven payment and QR code features**, achieving compliance with regulations and driving increased customer adoption and **streamlined transaction processing.**
- Implemented a **scalable architecture** leveraging JSON objects as input configuration, resulting in a **40%** boost in efficiency, increased flexibility for future growth, and enhanced scalability at the entity level.
- Implemented **wallet functionalities** for Oman, Qatar, and India in HSBC's global application, and standardized more than **20 modules** across **60 countries** for a seamless and consistent banking experience.
- Maintained **90% test coverage** for every feature, ensuring functionality verification across all aspects.
- Optimized UK entity to align with **MVP architecture** achieving a significant **60% code reduction** for view fragments.
- **Led a team of junior developers** in the seamless integration of the Unified Payment Interface **(UPI)** into the global application, resulting in 72% reduction in **payment processing time**.

PROJECTS

Automated Attendance Tracker Using Hybrid Cloud [Github] — May 2023

- Developed a classroom assistant tool by creating a **private cloud infrastructure** using **Openstack**, enabling educators to effortlessly manage student progress and assignments, resulting in a 40% reduction in administrative workload.
- Incorporated **AWS Lambda, S3, and DynamoDB** to enhance accuracy and efficiency by 25% in real-time student identification while handling **100** concurrent requests within **60 seconds.**

Morpholio: A Configurable Portfolio Platform [Github] — January 2023

- Designed a no-code portfolio builder using **ReactJS and Tailwind CSS**, providing 80% reduction in development time.
- Optimized website performance by implementing **React Hooks and Context API**, enabling seamless data sharing across components and enhancing user experience.

Handwritten Digits Classifier Flask Application [Github] — November 2022

- Developed an ML application for handwritten digits classification, using **Flask server** and **Docker** for seamless deployment.
- Utilized **Kubernetes** clusters on **AWS EKS** and **GCP GKE** for streamlined deployment and performance monitoring.

Meeting Assistant Web Application [Github] — October 2020

- Implemented a web app with **meeting recording analysis** and **MoM generation** increasing productivity by 55%.
- Leveraged **ReactJS** and **Material UI** for a seamless user experience, a 20% increase in user retention.
- Integrated AWS services for **transcription,analysis, storage and security** achieving 87% performance improvement.

Blockchain Powered Crypto-Currency [Github] — May 2019

- Built a cryptocurrency with **ExpressJS** and **Redis** server (pubsub model), achieving 30% faster transaction processing.
- Implemented wallet functionalities **public and private keys**, **transaction signing** using **SHA256 encryption** and ensuring **separation of concerns** using **Docker** to create **distinct containers** for users, miners, and a Redis server.

AWARDS AND CERTIFICATIONS

- **Hackerrank Problem Solving** Certification- Intermediate — June 2023
- **Technologist of the Quarter Award** for Outstanding Performance by **HSBC** — April 2020
- **Google** Certified Associate Android Developer — September 2020
- **AWS** Certified Solutions Architect - Associate (SAA) — February 2020
- **Machine learning** Certified by **Coursera** — July 2019