Swanand Kavitkar

(623) 283-8579 | **skavitka@asu.edu** | **skavitkar.com** | **Github** | **Linkedin** | **LeetCode** | **Medium**

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, Computer Networks, Object Oriented Programming, Database Management — **GPA 3.98**

SKILLS

Programming Languages: Java, Kotlin, Python, Javascript, Typescript, C++, C
Android Development: MVVM, Jetpack components, LiveData, RxJava, Kotlin Coroutines, View Model, Data Binding
Frontend Development: React, Angular, CSS, Tailwind CSS, Bootstrap, Jquery, HTML, Material UI
Backend Development: SQL, Spring, SpringBoot, REST API, Hibernate, ExpressJS, NodeJS, PostgreSQL
AWS Cloud: S3, EC2, Dynamo-DB, API-Gateway, Lambda, Transcribe, Comprehend, Cognito, SQS
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.**
- Streamlined system performance by designing 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.
- Integrated **payment and registration 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.
- Improved UK entity's Cheque deposit journeys to align with **MVP architecture**, potentially reducing code in view fragments by 60%, optimizing performance and enhancing code maintainability.
- **Led a team of junior developers** in the seamless integration of the Unified Payment Interface (UPI) into the global application, resulting in an optimized payment experience and a 40% reduction in payment processing time.

PROJECTS

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

- Engineered 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 an innovative personal website builder using **ReactJS and Tailwind CSS**, resulting in a 50% reduction in development time and a 60% increase in user satisfaction.
- Optimized website performance by implementing **React Hooks and Context API**, enabling seamless data sharing across components and enhancing user experience.

Meeting Assistant Web Application [Github] — October 2020

- Created meeting assistant web app with **speech-to-text transcription**, 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, including **public and private keys**, **transaction signing** using **SHA256 encryption** while ensuring **separation of concerns** using **Docker** to create **distinct containers** for users, miners, and a Redis server.

AWARDS AND CERTIFICATIONS

- **Preprint** - Robustness analysis between vision transformers and fully attentional networks [**ARXIV**] — June 2023
- **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