

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

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 2024 - Present

TikTok *San Jose, California*

- Designed a cross-platform architecture with **JSON-based configurations** using React and TypeScript, enhancing scalability to support diverse functionalities for TikTok family applications and reducing development time by **50%**.
- Led the development of the global donations feature on iOS, empowering **1B+ TikTok users** to create customized fundraisers with unique stickers and real-time status updates.
- Built an iOS web container module, simplifying web view pop-up integration for TikTok applications and event tracking for **100+ businesses**, reducing development complexity by **30%**.
- Enhanced data insights and feature stability by building ET dashboards and crash monitoring systems for **1M+ data points**.

Software Engineer

March 2024 - July 2024

Privoro LLC *Tempe, AZ*

- Led the development of a **secure communication mobile app**, utilizing advanced Kotlin features such as **coroutines**, **flows**, and **Jetpack Compose** achieving a notable **15% decrease in app crash rates**, enhancing overall stability.
- Designed and developed a robust **Safecase firmware evaluation system**, employing a mobile app for cloud assessment and Raspberry Pi for hardware evaluation, yielding a **30% improvement in stability**.

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 **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.
- 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**.

Meeting Assistant Web Application [[Github](#)]

October 2020

- Implemented a web app with **meeting recording analysis** and **MoM generation** increasing productivity by 55%.
- Improved user experience through **Material UI**, **React Hooks**, and **Context API**, achieving a 20% increase in user retention and enabling smooth data sharing across components.
- 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