

SWETA MISHRA

+971 566364235 | Dubai, UAE | m.swetab14@gmail.com | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

National University of Singapore

Master of Science (Computer Science, School of Computing)

Jan 2022–Jul 2024

Kalinga Institute of Industrial Technology

Bachelor Of Technology (Electrical Engineering)

Aug 2012 – May 2016

WORKEXPERIENCE

Freelance Full Stack Developer | Remote

Dec 2024 – Present

- Architected and deployed ExpiryGuard, a React Native mobile application integrated with Supabase for user authentication and backend services, implementing automated push notifications to handle real-time user alerts targeted for publication on the App Store and Google Play Store.
- Architected an AI-powered rental assistant with Node.js and OpenAI, implementing RAG to ground LLM context with real-time database records and function/tool calling workflows to autonomously trigger background backend queue jobs.
- Created Fixit, a web application utilizing Python and Django, implementing secure workflows, authentication, and relational data models, while successfully managing environment configurations and automated deployment pipelines via Render.
- Engineered DevStack, a robust Python/Flask web application featuring secure user authentication, registration forms, and relational database connectivity and implemented POM architecture using Playwright to validate authentication flows.

React Native Developer, Tetsuyu Healthcare Holdings Pte Ltd

Apr 2023–Oct 2023

- Architected and enhanced cross-platform features for the Care4CareGiver application using React Native and TypeScript.
- Engineered a robust, in-app real-time chat interface mimicking WhatsApp/Telegram workflows using React Native FlatList and custom state management (useState, useNavigation); integrated complex device storage access via DocumentPicker, camera/gallery APIs for asynchronous PDF/image attachments, and developed a resilient, dedicated react-native-pdf viewer component with dynamic device-orientation layout handling.
- Wrote Unit tests and end-to-end integration tests using Jest and Playwright, significantly driving down regression bugs and optimizing application stability.

Software Engineer | Tech Mahindra Ltd

Jul 2016 – May 2019

- Built custom validation scripts and automated health-check monitoring for PeopleSoft applications using Python, eliminating the manual overhead of daily log checking and transaction file audits. Utilized Oracle SQL extensively for data extraction, validation, and user access management to support accurate reporting.
- Developed client-side web features within PeopleSoft pages using JavaScript, implementing real-time field validations and conditional form logic to prevent invalid data entry at the user interface level.
- Optimized end-to-end ETL data pipelines and batch processing jobs using Teradata SQL staging tables, fixing data flow bottlenecks and resolving validation discrepancies during high-volume data staging. Developed python scripts to automate routine validation checks and data pipeline monitoring for Teradata workflows.
- Engineered Oracle SQL queries and automated validation scripts to handle secure database user access provisioning, systematic data extraction, and troubleshooting of live transaction discrepancies. Handled user data access and transaction.

SKILLS AND TOOLS

- **Frontend:** React.js, Next.js, JavaScript, TypeScript, Redux, Zustand, HTML5, Tailwind CSS, Bootstrap
- **Backend:** Node.js, Express.js, Python (Django, Flask), GraphQL, Supabase, RESTful APIs, Redis, BullMQ, OpenAI API, RAG, AI Agents
- **Mobile:** React-Native (Expo)
- **Data Management:** PostgreSQL, MongoDB, MySQL, SQLite, SQLAlchemy
- **DevOps:** Docker, AWS, Postman, Render, Netlify, Git, GitHub
- **Testing & QA:** Jest, Mocha, Chai, Playwright

COMPUTERSCIENCE PROJECTS

- **Singapore Transit & Travel Platform:** Developed a containerized Full Stack web application utilizing react-google-maps/API and MongoDB to aggregate regional transit, booking, and navigation services into a unified dashboard.
- **Enterprise MLOps Suite Containerization:** Architected an off-premise infrastructure pipeline by leveraging Docker Compose and Oracle VM VirtualBox to host containerized MLflow model tracking environments.