Woojang Pyeon

Software Engineer

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PROFESSIONAL EXPERIENCE

OURSKY LTD.   **Cheung Sha Wan, Hong Kong**

Software Engineer Intern   **June 2023 - Aug 2023**

- Developed a cross-platform mobile application "AI Scan - FormX" using React Native. Utilised the company's mobile OCR SDK and document detection service to extract data from physical documents. Launched version 1.0.0 from scratch in two months.
- Improved live object detection latency using ML Kit on the OCR platform's Android SDK. Created a native module that bridges the Android and iOS native SDK to Javascript code.
- Imposed user authentication and rate-limiting on API endpoints by developing a reverse proxy server.
- Operated effectively under the guidance of the tech lead. Partnered with project managers and UI designers using collaboration tools like Slack, GitHub, and Figma.

GLOBAL E-SOLUTIONS LTD.   **Kwun Tong, Hong Kong**

Programmer   **Aug 2022 - May 2023**

- Developed new functionalities for a wealth management software as requested by stakeholders.
- Progressively developed a database audit trail system that provides users with transaction logs of all database changes. Implemented a PDF report generation feature for the audit trail system.
- Identified and addressed inefficiencies in a web application by eliminating the generation of multiple PDF files on page load, implementing on-demand PDF generation via a page redirect, resulting in a tenfold reduction in transactions and improved response times.
- Implemented an admin dashboard webpage using JSF and the Spring framework, leveraging a standardized design system to ensure responsive design across various devices.
- Maintained software documentation by creating and editing detailed technical specifications in accordance with software engineering best practices.

REPUBLIC OF KOREA AIR FORCE   **Daegu, Republic of Korea**

Information Systems Technician   **Aug 2019 - May 2021**

EDUCATION

CITY UNIVERSITY OF HONG KONG   **Kowloon Tong, Hong Kong**

Bachelor of Science, Major in Computer Science   **2018 - 2024**

- Awarded Dean's List - Semester A, A.Y. 21/22
- Awarded Dean's List - Semester A, A.Y. 18/19

Team project in on-device OCR iOS application   **2024**

- Developed an iOS application for optical MICR (Magnetic Ink Character Recognition) using Swift. Developed on-device pre-processing, segmentation, and manipulation of images using Swift Core Image and Core Graphics framework to reduce third-party dependency and app size.
- Implemented on-device OCR with custom-trained TensorFlow Lite model.

CERTIFICATES

HUMAN RESOURCES DEVELOPMENT SERVICES KOREA

Craftsman - Information Processing   **2019**

SKILLS

- Project Management: GitHub, Redmine, Slack
- Technical: Mobile App Development, Web Development, React, TypeScript, Python, Java, DBMS, Git, Machine Learning, Docker
- Languages: English (Professional), Korean (Native)