WOOJANG PYEON

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EDUCATION

CITY UNIVERSITY OF HONG KONG   Hong Kong SAR
Bachelor of Science, Major in Computer Science   Sept 2018 – June 2024
- Awarded Dean's List - Semester A, A.Y. 21/22, Semester A, A.Y. 18/19
- CGPA - 3.38/4.3
- Final Year Project on Fine-tuning BERT Model for Financial Articles Sentiment Analysis

SKILLS

- Languages: Javascript/Typescript (Node.js), Swift, Kotlin, Python, Java, SQL, HTML5, CSS3
- Frameworks: React, React Native, TailwindCSS, PyTorch, Spring
- Tools: Vite, Git, GitHub, Figma, Postman, Docker
- Collaboration: Agile Methodology, Slack, Notion, Redmine

PROFESSIONAL EXPERIENCE

OURSKY LTD.   Hong Kong SAR
Software Engineer Intern   June 2023 – Aug 2023
- Developed a cross-platform mobile application "AI Scan – FormX" using React Native. Utilised the company's mobile SDK for on-device document region detection and cloud OCR service to extract data from physical documents. Launched version 1.0.0 from scratch in 2 months.
- Improved live object detection latency of Android SDK camera view from 2~3 FPS to 30+ FPS by utilising ML Kit SDK and lightweight object detection model. Created a native module that bridges the Android and iOS native SDK to Javascript code, enabling integration of the SDK in React Native based applications.
- Developed a reverse proxy server to impose user authentication and rate-limiting on API endpoints without modifying the original API codebase.
- Worked effectively under the guidance of the tech lead to deliver tasks on time. Collaborated with project managers and UI designers using tools like Slack, GitHub, and Figma to ensure seamless project execution.

GLOBAL E-SOLUTIONS LTD.   Hong Kong SAR
Programmer   Aug 2022 – May 2023
- Developed 10+ new utility features, including client activity tracking and report generation, tailored to the needs of wealth management companies. Utilized JavaFX to create user-friendly interfaces, enhancing the software's functionality and user experience. Collaborated with stakeholders and managed tasks to ensure timely delivery of high-quality solutions.
- Designed and implemented a robust database audit trail system to log database transactions, ensuring full transparency and accountability. Enhanced the system with a feature allowing users to export and review detailed audit logs.
- Addressed inefficiencies in a web application where PDFs were statically generated on a page for all users, regardless of whether they accessed the files. Implemented a dynamic on-demand PDF generation system, reducing unnecessary server transactions by 90% and significantly improving response times.
- Migrated a legacy system to a modern admin dashboard web app using JSF and the Spring framework. Implemented a standardized design system to ensure a cohesive and responsive user experience across all devices.
- Maintained software documentation by creating and editing detailed technical specifications in accordance with software engineering best practices.

REPUBLIC OF KOREA AIR FORCE   Republic of Korea
Information Systems Technician   Aug 2019 – May 2021

PROJECTS

DESKTOP TRADING APPLICATION - BINANCE TRADER
Personal project - published details on the portfolio website   Nov 2024
- Designed and developed a desktop-based algorithmic Bitcoin trading application using Electron and React. Integrated the app with Binance wallets via WebSocket for real-time price updates and order execution.
- Automated the deployment of built files to GCP storage services using Terraform for consistent updates. Utilized Knex for database migrations to maintain schema consistency across versions.

iOS APPLICATION - CHEQUE MICR LINE OPTICAL RECOGNITION
Team project   Jan – Mar 2024
- Developed an iOS application for optically reading MICR (Magnetic Ink Character Recognition) line of bank cheques using Swift. Implemented on-device OCR with custom-trained TensorFlow Lite model. 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.