Yam Ho Wing Isaac

Software Engineer | Technical Engineer

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EDUCATION

Bachelor of Engineering in Biomedical Engineering,
City University of Hong Kong
09/2018 – 03/2023
- **Relevant Coursework**: Data Analysis with Python/MATLAB, Artificial Intelligence in Biomedical Engineering, Biomedical Signal Processing, Computer Programming, Final Year Project (Data-Driven Biomedical Application)

PROFILE

With 2+ years of experience in full-stack development and cloud infrastructure. Skilled in Python, JavaScript/TypeScript, React, Node.js, AWS, and Docker. Proven record of delivering scalable solutions tailored to client requirements.

PROFESSIONAL EXPERIENCE

Technical Engineer, *I-Tech Healthcare Ltd.*   06/2023 – Present | Tsuen Wan
- Assist in the design and implementation of technical solutions for healthcare projects.
- Conduct training sessions for staff to improve technical competencies.
- Conduct internal and external meetings with department heads to drive business decisions.
- Participate in the tendering process for new projects.
- Develop software to streamline laboratory workflows.

Engineer Trainee, *I-Tech Healthcare Ltd.*
- Conducted hands-on testing of analyzers and medical devices in compliance with CLIA standards.
- Assisted in drafting technical documentation for equipment operation protocols.
- Participated in cross-functional meetings to align project objectives and timelines.
- Contributed to the design of user testing procedures, ensuring compliance and safety requirements were met.

PROJECTS

RFID Inventory Management Platform, *React • Java • Node.js • PostgreSQL • IoT*
- Designed and delivered a 500,000 HKD RFID-based inventory management system for Gleneagles hospital for reagent, sample and waste management
- Involved in all stages of the project, from requirements gathering to deployment.
- Independently designed the system architecture through self-learning and overseas collaboration
- Integrate the hardware using manufacturer's SDK and RestAPI

Laboratory Information System (LIS), *React • Django • PostgreSQL*
- Participated in a 1M HKD tender for Hong Kong Metropolitan University
- Developed a comprehensive system to store patient data, sample details, and test results
- Integrated with various healthcare analyzers using HL7
- Streamlined laboratory workflows

Company Website Development, *React • Strapi*
- Developed a corporate website for Heldico MediLife Technology
- Implemented Strapi V5 headless CMS to allow non-technical users to update the website

SKILLS

Languages — Python, JavaScript/TypeScript, Java, **Frontend** — React, HTML5, CSS3, TailwindCSS, **Backend** — Node.js, Express.js, Django, RESTful, **Databases** — PostgreSQL, MySQL, **Cloud & DevOps** — AWS (EC2, S3, Lambda, RDS, ECS), Docker, **Tools** — Git/GitHub, Postman, VS Code, MS Office

CERTIFICATES

- AWS Certified Cloud Practitioner
- Full-Stack Development Certificate by Codeacademy
- Professional Training in CLIA Analyzer Management