FELIX TSANG

SOFTWARE DEVELOPER

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PROFESSIONAL EXPERIENCE

APPLICATION DEVELOPMENT ANALYST (SOFTWARE DEVELOPER)   *Accenture | 2022 – 2023*

Digital transformation project in a multinational financial institution

- Engineered robust **RESTful APIs** and scalable **microservices**, streamlining data retrieval and storage for a digital transformation project at a financial institution.
- Developed new features with **Java Spring Boot** framework for backend, encompassing underwriting and claim processing procedures, contributing to operational efficiency.
- Enhanced database schemas and data by preparing **SQL scripts** and **XML/JSON** data mapping, ensuring a seamless data transition and achieving a significant **25-35% reduction** in data retrieval time.
- Scheduled and managed automated batch job tasks in **Azure DevOps** for efficient and automated critical process execution, leading to a remarkable **50% boost** in process efficiency over manual batch jobs.
- Collaborated with a **cross-functional team** of 10+ team members across regions in **Agile** and **Scrum** settings to deliver a secure and scalable platform on time and within budget.
- Overhauled a user-facing form into a high-performance platform using **React** and **TypeScript**.
- Drafted comprehensive technical documentation for APIs and strategically implemented unit tests, ensuring long-term support and preventing production issues.

Tenant Portal System in a multinational property developer

- Created a **microservices architecture** using **Node.js, Kubernetes, and MySQL**.
- Utilized **Swagger** and **OpenAPI** to streamline API communication, ensuring clear, well-documented endpoints for improved collaboration across the full stack.
- Leveraged **Docker** to containerize backend services, applying microservices architecture principles to enhance system scalability, streamlining deployment processes.
- Transformed complex business requirements into technical operations, bridging the gap between business needs and software development.

ASSISTANT ENGINEER   *WSP (ASIA) Limited | 2021 – 2022*

- Provided building services system consultancy and designed systems in **Waterfall Model**.
- Adapted to **highly dynamic** and changing situations.
- Transferable Skills: Problem-solving, Analytical Skills, Flexibility, Team-oriented

PERSONAL PROJECTS

Personal Stock Portfolio Tracker | *Spring Boot, React, PostgreSQL, Real-Time Stock Market API*

- Spearheaded the development of backend using Spring Boot, creating RESTful APIs for efficient stock data handling.
- Engineered front-end in React, delivering an intuitive user interface with daily stock data updates.
- Designed a secure PSQL database to store and manage user portfolio data, ensuring reliability and performance.

SKILLS

- **Backend Development:** Java, Python, Spring Boot, Hibernate, Node.js, Django
- **Frontend Development:** JavaScript, TypeScript, React, Bootstrap
- **CI/CD Pipelines:** GitHub, Jenkins, JIRA, Docker, Kubernetes
- **Database & Cloud Technologies:** RDBMS (MySQL, PostgreSQL), NoSQL (MongoDB), Cloud Platform (Azure, AWS)
- **Techniques:** RESTful API integration, Technical Analysis, Troubleshooting and Debugging, Technical Documentation Writing, Unit Testing, Agile Methodologies, Object-oriented programming
- **Soft Skills:** Bilingual Communication (English, Chinese), Problem-solving, Analytical thinking, Attention to detail, Self-motivated, Fast-paced adaptability, Verbal communication, Team-oriented

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EDUCATION

THE UNIVERSITY OF HONG KONG   *Hong Kong | 2020 – 2021*
Master of Science in Engineering in Building Services Engineering [MSc(Eng)(BSE)]

THE UNIVERSITY OF HONG KONG   *Hong Kong | 2016 – 2020*
Bachelor of Engineering in Mechanical Engineering [BEng(ME)]

QUALIFICATIONS & PROFICIENCIES

Data Structures and Algorithms From GeeksforGeeks   *November 2023*
AWS Certified Solutions Architect – Associate From AWS   *December 2022*

AWARDS & ACTIVITIES

Teaching Assistant of Tam Wing Fan Innovation Wing in The University of Hong Kong   Hong Kong | 2020 – 2021
External Vice-Chairperson of Engineering Society, HKUSU, Session 2017 – 2018   Hong Kong | 2017 – 2018
Tutorship & Scholarship: Innovation Wing Tutorship Training Scheme (2020), HKU TPG Scholarship for UG Class of 2020 (2020)
Hobbies and Interests: Investing, Soccer, Gaming, and Fitness

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