Joel Kong Boon Wei

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EDUCATION

Singapore Institute of Technology   Singapore
BEng(Hons) Information and Communications Technology majoring in Software Engineering   *Aug. 2023 – Aug 2027*

Singapore Polytechnic   Singapore
Diploma in Financial Informatics   *Mar. 2018 – March 2021*

EXPERIENCE

Student Assistant Software Engineer (Full-stack)   Oct 2023 – Feb 2024
Singapore Institute of Technology   *Singapore*

- Enhanced the operational efficiency and user experience of the phase one development of an intelligent indoor soft shell crab farming system
- Developed an aesthetic graphical user interface with Django, improving system manageability and user interaction
- Manipulated backend data through a MySql database, populated key table fields and managed foreign key relationships, optimizing retrieval processes of live data
- Implemented a live data fetching logic engine using Mqtt data schedulers to enhance real-time environmental monitoring of the crab farming system
- Integrated the Twilio API to automate WhatsApp notifications for alerts regarding threshold values, boosting customer engagement through timely updates and alerts

Data Analyst Intern   Aug 2020 – Jan 2021
HSBC Life   *Singapore*

- Worked alongside the policy servicing team to create and distribute insurance policy forms, contributing to product innovation and client satisfaction
- Automated BAU routine processes with Excel macros, significantly boosting company efficiency and reducing manual workload
- Streamlined data processing by transferring information from the AS400 IBM system to Excel, enhancing data organization and accessibility

PROJECTS

SgUniDorms | *NextJS, TailwindCSS, Firebase*   sgunidorms.com

- Developed a platform to rate and discuss all about the dormitories of Singapore's universities

LiveChat | *Docker, Jenkins, Socket.io, Supabase*   github.com/JoelKong/LiveChat

- Developed a websocket based realtime chat with DevOps implementation for learning purposes

NutriSprint-OOP | *Java, LibGDX*   github.com/JoelKong/NutriSprint-OOP

- Developed a game focusing heavily on object oriented principles

SubiScrape | *GPT 3.5 turbo, MUI*   github.com/JoelKong/SubiScrape

- Developed a web scraping application which summarizes scraped information using generative AI technology

TECHNICAL SKILLS

Languages: JavaScript, HTML/CSS, Python, Java, SQL, NoSQL
Frameworks: React, NextJS, Node.js, ExpressJS, TailwindCSS, Nginx, Jest, Jenkins, Docker, Linux, AWS
Methodologies: Agile, Unit Testing, CICD, DevOps, Full-Stack

HACKATHONS AND COMPETITIONS

PolyFinTech100 API Hackathon 2020 - First Place Category Finals   Singapore Polytechnic

- Created a solution to help people manage their money through decentralized finance

INTUition v9.0 Hackathon 2023 - Participant   Nanyang Technological University

- Led a team to develop an optimized system design to provide secure financial transactions