Joel Kong Boon Wei

(+65) 83753022 | joelkong2001@gmail.com | linkedin.com/in/joel-kong | github.com/JoelKong | joelkong.com

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.
- Optimized retrieval processes of live data by manipulating backend data through a MySql database, populating key table fields, and managing foreign key relationships.
- Implemented a live data fetching logic engine utilizing Mqtt data schedulers to improve real-time environmental monitoring of the crab farming system, resulting in a 20% reduction in monitoring time.
- Implemented the Twilio API to automate WhatsApp notifications for alerts regarding threshold values, increasing customer engagement by 30% through timely updates and alerts.

Data Analyst Intern
Aug 2020 – Jan 2021

HSBC Life
Singapore

- Automated BAU routine processes using Excel macros, resulting in a 30% increase in company efficiency and a 30% reduction in manual workload.
- Streamlined data processing by transferring information from the AS400 IBM system to Excel, enhancing data organization and accessibility.
- Collaborated with the policy servicing team to develop and distribute insurance policy forms, leading to increased product innovation and improved client satisfaction.

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

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 and CICD implementation for learning purposes.

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

- Developed a game focusing heavily on object oriented principles.

SubiScrape | *ReactJS, GPT 3.5 turbo, MUI*
scrapegpt.vercel.app

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

SKILLS

Versatile full-stack engineer. See github and portfolio for more information.
Languages: JavaScript, Python, Java, HTML/CSS, SQL, NoSQL
Frameworks: ReactJS, NextJS, ExpressJS, SpringBoot(Spring Data JPA), VueJS, Django, Ruby on Rails
Methodologies: Agile, Scrum, OOP, MVC, Git, Unit Testing, CICD, DevOps, Full-Stack
Soft Skills: Problem-solving, Critical/Analytical Thinking, Communication, Adaptability

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