

JOEL KONG BOON WEI

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WORK EXPERIENCE

Singapore Institute of Technology

Student Assistant Software Engineer (Full-stack)

Oct 2023 - Feb 2024

- Contributed to the phase one development of an intelligent indoor soft shell crab farming system, enhancing operational efficiency and user experience.
- Developed an aesthetic graphical user interface with Django, improving system manageability and user interaction.
- Managed backend data through a MySQL database and populated key table fields, 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.

HSBC Bank

Data Analyst Intern

August 2020 - January 2021

- Worked alongside the policy servicing team to create and distribute insurance policy forms, contributing to product innovation and client satisfaction.
- Automated 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*

<https://www.sgunidorms.com/>

A platform to rate and discuss all about the dormitories of Singapore's universities.

LiveChat *Docker, Jenkins, Socket.io, Supabase*

<https://github.com/JoelKong/LiveChat>

A websocket based realtime chat with DevOps implementation for exposure purposes.

SubiScrape *GPT 3.5 turbo, MUI*

<https://www.subiscrape.com/>

A web scraping application which summarizes scraped information using generative AI technology.

Secured OAuth Form *ReactJS, MongoDB, JWT*

<https://github.com/JoelKong/OAuth-Form>

A beginner project attempting to manually create a secure authentication and authorization form.

EDUCATION

Singapore Institute of Technology

Singapore

BEng(Hons) ICT majoring in Software Engineering

August 2023 - August 2027

Singapore Polytechnic

Singapore

Diploma in Financial Informatics

March 2018 - March 2021

SKILLS

Programming Languages: Javascript, Typescript, HTML, CSS, Python, SQL, noSQL, Git, Docker, AWS

Frameworks: Agile, Unit Testing, CICD, DevOps, Full-Stack

LinkedIn: <https://www.linkedin.com/in/joel-kong/>

Github: <https://github.com/JoelKong>

HACKATHONS & COMPETITIONS

PolyFinTech100 API Hackathon 2020 - First Place Category Finals

Singapore Polytechnic

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

July 2020

INTUition v9.0 Hackathon 2023 - Participant

Nanyang Technological University

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

Feb 2023