Tiong Shan Kai

✉ : tiongshankai97@gmail.com

EDUCATION

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN
BEng in Computer Science and Design
Honours with Highest Distinction
Grad. Aug 2022 | Singapore

SINGAPORE MANAGEMENT UNIVERSITY
Bachelor of Business Management
Honours with High Distinction
Grad. Aug 2022 | Singapore

LINKS & CONTACT

Mobile : +65 9382 1490
LinkedIn :
https://www.linkedin.com/in/shan-kai-tiong/
GitHub : https://github.com/shankaikai
Portfolio : https://shankai.netlify.app/

COURSEWORK

UNDERGRADUATE
Software Engineering and Testing
Data Structures and Algorithms
Computer Architecture and OS
Linear Algebra and Multi-variable Calculus
Probability and Statistics

SKILLS

PROGRAMMING
Languages
Python • Typescript • SQL • Java
Technologies
Node • React • Redux • Spring Boot • GraphQL • Express • Flask
Others
DataDog • JIRA • Jenkins • Jest • Mockito • Cypress • Git

ACTIVITIES

Uni-Y Community Service Club
President (Jan - Dec 2021)
• Ensure smooth execution of community service initiatives and led a team of club executives.
Personal Development Director (Jan - Dec 2020)
• Worked with other club members to organise large scale mental health awareness events.

EXPERIENCE

INDEED | Software Developer II
Sep 2022 - Mar 2023 | Singapore
- Platform developer for the Japan employer team and worked on a high-traffic job posting and management web application.
- Implemented an end-to-end feature enabling employers to easily select interview booking accounts using **React.ts** and **Java DGS GraphQL** Framework.
- Maintained code integrity through rigorous unit and integration testing utilizing **Jest, JUnit and TestCafe**.
- Exhibited a keen sense of responsibility by handling on-call bug investigation duties and monitoring application performance and metrics with **DataDog**.

INDEED | Software Engineering Intern
May 2021 - Aug 2022 | Singapore
- Spearheaded the internationalization efforts for Indeed's global payment platform by utilizing **Spring Boot, TypeScript, and React**.
- Ensured high code quality standards by providing comprehensive code coverage through utilization of **Jest, JUnit, Mockito and Cypress**.
- Established an automated **Jenkins** pipeline to streamline the merging of translation files with the master branch, boosting overall team efficiency.
- Fostered effective cross-functional collaboration by liaising with external stakeholders to facilitate seamless component integration.

DHL EXPRESS | Information Technology Intern
May 2020 - Aug 2020 | Singapore
- Developed a SMS payment notification script using **Python**, drastically reducing manual workload for the Payments team.
- Developed a dynamic **R** Shiny dashboard that provided analysis on Customer Service chat, which was widely adopted across the organization.
- Created a Excel Macro using **VBA** to generate billing reports, which saved the billing team 4 hours per report and improved overall team productivity.
- Contributed to the successful production of a customer web application utilizing **ASP.NET Razor Pages** and Bootstrap **CSS** framework.
- Carried out user requirement gathering and UAT.

PROJECTS

IMATRIX OPERATIONS ECOSYSTEM | Final Year Project
Jan 2022 – Aug 2022 | Singapore
- Built a dashboard web application and IoT infrastructure to digitalise manual operations using React, **gRPC**, **Envoy** and **MySQL**.
- Contributed in the architecture design and frontend development.

SINGHEALTH AUDIT APPLICATION | Full Stack PWA
Jan 2021 – Apr 2021 | Singapore
- Lead the team to create a progressive web application to digitalise audit processes at SingHealth using **React.js, Express and MySQL**.
- Utilized Azure database for MySQL and Cloudinary for picture storage.

MOVIE RECOMMENDER | Information Retrieval Project
Jan 2021 – Apr 2021 | Singapore
- Worked with three others to build a information retrieval model and web application for movie recommendations using **React and Flask**.