Toh Kai Feng

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Software Engineer with experience in full stack web and mobile development. I possess a proven ability to lead and execute software projects while continuously equipping myself with new programming knowledge such as designing user-friendly interactive web applications and developing database architectures. My prior experiences include leading full stack development projects and technical delivery in school and internships at Singtel and Surer. It is my passion to automate the mundane, simplify lives of myself other individuals, and confront new and complex technical challenges.

EDUCATION

SINGAPORE UNIVERSITY OF TECHNOLOGY & DESIGN *(GPA – 4.4 / 5)*   **Singapore**
Bachelor of Computer Science**, *SUTD-SMU DDP in Technology and Management*   **May 2019 – Aug 2022**
SINGAPORE MANAGEMENT UNIVERSITY *(GPA – 3.7 / 4)*   **Singapore**
Bachelor of Business Management, ***SUTD-SMU DDP in Technology and Managemen*t**   **May 2019 – Present**

PROFESSIONAL EXPERIENCE

WHITECHALK PRIVATE LIMITED (SURER)   **Singapore**
Backend Software Engineer Intern   **Nov 2021 – Mar 2022**
- Developed new API endpoints using *Asp.Net Boilerplate* (ABP) framework in *C#* that adopted Domain-Driven Design to serve data to Surer's Web Application
- Supported **over 350 insurance intermediaries** on a monthly basis.

SINGTEL TELECOMMUNICATIONS LIMITED   **Singapore**
Assistant Engineer in Change & Access Management Intern   **May 2021 – Aug 2021**
- Developed a *PowerApps* application to automate the management and fault-monitoring of spare equipment which were adopted and employed to support Singtel's communication infrastructure
- The deployment of the application automated the monitoring of inventory and faults of **more than 100 spare parts**

VASS PTE LTD   **Singapore**
Software Development Intern   **May 2019 – Aug 2019**
- Supervised 2 interns to develop a website which digitized the workflow of a large maid agency with operations of 20 outlets in Singapore
- Utilised *PHP* and *Javascript* such that the website could provide automatic receipt generation, tracking of monthly sales and a platform for liaison between the maid agency and for overseas partners

SCHOOL PROGRAMMES/PROJECTS

SINGAPORE UNIVERSITY OF TECHNOLOGY AND DESIGN   **Singapore**
SUTD X Collins Aerospace – Panorama (01.400 Capstone)   **Jan 2022 – Aug 2022**
- Supervised the development of a Dashboard-Chatbot Webapp facilitating Maintenance, Repair and Overhaul (MRO) planning for Line Managers to efficiently manage operational tasks related to work orders and scheduling
- Deployed the application on AWS EC2 and utilised React, Asp.NET Core (C#), FastAPI (Python) and Rasa (Python) for development

Amazon DynamoDB Key-Value Store Clone (50.041 Distributed Systems)   **Aug 2021 – Dec 2021**
- Successfully implemented a distributed Key-Value store using GO that mimics Amazon's DynamoDB, providing scalability, fault tolerance and high write availability using consistent hashing, hinted handoffs and data versioning

Singhealth Retail Audit App (50.003 Elements of Software Construction)   **Jan 2021 – Apr 2021**
- Designed and deployed a progressive web application that was built on a modern React and GraphQL framework that seeks to automate and digitise the current manual retail audit process
- Implemented features such as an image capture function and an automatic PDF generation and export function for completed audit forms

The Amigo Project (50.001 Introduction to Information Systems)   **Aug 2020 – Dec 2020**
- Led the development of an Android application using Java, Android Studio and Firebase that seeks to connect self-initiated students looking for project management tools to either find projects to work on or project members to work with to supplement their learning journeys
- Featured as one of the top three projects on SUTD's ISTD 1D Virtual Exhibition 2020

Victoria Junior College   **Singapore**
Orientation Group Head, VJC 2016 Freshman Orientation   **Dec 2015 – Feb 2016**
- Supervised logistics and planning for the Freshman Orientation and led a group of 40 Orientation Group Leaders to deliver a positive experience for newly enrolled students

SKILLS AND LANGUAGE PROFICIENCES

- Programming Languages: Python, Java, HTM/CSS/Javascript, C++, SQL, React, C#, GO
- Tools: Android Studio, Adobe Creative Suite, Figma, Google Firebase, Amazon Web Services
- Languages: English and Mandarin (Native)