Tin Kah Ong Isaac

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Skills

- Java | Springboot | JavaScript | TypeScript | Python | MYSQL | PostgreSQL | NoSQL | Node | Express | React | Angular
- Figma | CSS | PHP | GoLang | jQuery | MongoDB | Redis | Firebase | Github | Git | Ansible | Chef
- Prometheus | Bosun | CI/CD | Jenkins | JUnit | Cucumber | Karate | Unit/Integration Testing | OOP

Experience

Software Engineer — Visa — *Singapore* — 01/2023 - Current

- Led the design and development of enterprise-level internal application for provisioning and deployment of perimeter zone web applications, streamlining operations and cutting expenses by reducing man-hours required to provision, maintain and deploy servers by 90%, using technologies such as **Springboot, Chef, Ansible, MySQL and Angular**.
- Spearheaded and led the design and development of backend of enterprise-level internal application aimed at streamlining the attestation process, providing automation of essential tasks and consolidation of relevant attestation applications in one place, increasing ease of attestation, lowering labor cost and margin of error, using technologies such as **MongoDB, Python, Springboot, Angular.**
- Designed and implemented scalable APIs for discovery and retrieval of all servers' important and useful information within Visa, increasing efficient maintenance and utility of resources, cutting costs by over $20 million, using technologies such as **Ansible, Springboot, ELK, MongoDB, Angular and MySQL.**
- Designed and implemented robust monitoring and alerting functionalities with **Prometheus** and **Bosun**.
- Implemented CI/CD pipelines and unit, integration and e2e testing via **Jenkins, JUnit, Karate and Cucumber**,

Software Development Intern — Visa — *Singapore* — 05/2022 - 08/2022

- Led the ideation and design of an enterprise-level application which optimized maintenance and configuration of all Prometheus servers throughout Visa, cutting man-hours required by 50%.
- Utilized **Figma** for UI/UX design and visualization, creating detailed prototypes which optimizes user experiences and user satisfaction.
- Spearheaded the development of application, employing **ReactJS**, **ExpressJS** and **Typescript** for frontend and **GoLang** for backend.
- Setup and configured the middleware and infrastructure, leveraging on technologies such as **MongoDB**, **Redis** and **Prometheus**.

Full Stack Developer Intern — Acktec Technologies Pte Ltd — *Singapore* — 05/2021 - 08/2021

- Led deployment, customization and integration of third-party software into company ecosystem, utilizing technologies such as **XML**, **React** and **Javascript**
- Assisted in the maintenance and configuration of various aspects of company servers such as network protocols and security settings
- Implemented drag-n-drop feature in company's frontend application, using technologies such as **CSS**, **PHP** and **jQuery**
- Spearheaded requirements gathering, planning and creation of new web applications for the company with **Wordpress**.

Education

Bachelor of Computing — National University of Singapore — *Singapore* — 08/2019 - 15/2023

- Major in Computer Science

Projects

Coral Conservation — *Singapore* — 05/2021 - 08/2021

- Spearheaded design and development, employing technologies like **ReactJS** with bootstrap to create a responsive and intuitive user interface for frontend, and leveraging on **FIrebase** as backend for clients to store and retrieve information about coral reef conservation.
- Adopted **GIthub** and **Git** for code management and version control.
- Led the team in requirements gathering and project planning, effectively managing the product development process and ensuring alignment with client objectives.

NUS Orbital Summer Project — *Singapore* — 05/2020 - 08/2020

- Planned and designed a web application which allows students to search, select, plan and rank modules and lessons with increased ease and efficiency, reducing student's module planning timing by 40%.
- Led the development of the project, utilizing technologies like **MongoDB**, **ExpressJS**, **ReactJS**, **NodeJS** and google maps Apis.

Software Engineering Module Project — *Singapore* — 08/2021 - 12/2021

- Led a team to make a Human Resource CLI program in **Java**, performing extensive unit and integration testing on 20000 line of codes, achieving over 60% code coverage using technologies such as **JUnit.**