

# Tin Kah Ong Isaac

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## Skills

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

## Experience

- | Software Engineer  | Visa | Singapore | 01/2023 - Current |
|--|------|-----------|-------------------|
| <ul style="list-style-type: none"><li>• Led the design and development of enterprise-level internal application for provisioning and deployment of perimeter zone web applications, streamlining operations by 50% and cutting expenses by 30% through process automation and optimization, using technologies such as <b>Springboot, Chef, Ansible, MySQL and Angular</b>.</li><li>• Designed and implemented scalable APIs for discovering, storing, updating and retrieval of all servers and their information within Visa using <b>Ansible, Vertx, ELK, MongoDB, Angular and Hazelcast</b>, serving thousands of server information requests daily</li><li>• Helmed the building and deployment of vendor product in Visa, liaising with both vendor and product teams within Visa to configure and successfully deploy vendor product according to system requirements, streamlining and optimizing deployment of flink jobs for users and cutting man-hours required down by 30%, using technologies such as <b>Helm, Kubernetes, Docker</b>.</li><li>• Architected and implemented robust monitoring and alerting functionalities with <b>Prometheus</b> and <b>Bosun</b>.</li><li>• Implemented CI/CD pipelines and unit, integration and e2e testing via <b>Jenkins, JUnit, Karate and Cucumber</b>,</li></ul> |      |           |                   |

- | Software Development Intern  | Visa | Singapore | 05/2022 - 08/2022 |
|--|------|-----------|-------------------|
| <ul style="list-style-type: none"><li>• 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%.</li><li>• Utilized <b>Figma</b> for UI/UX design an visualization, creating and crafting detailed prototypes which optimizes user experiences and maximize user satisfaction.</li><li>• Spearheaded the fullstack development of application, employing <b>ReactJS, ExpressJS</b> and <b>Typescript</b> for frontend and <b>GoLang</b> for backend.</li><li>• Setup and configured the middleware and infrastructure, leveraging on technologies such as <b>MongoDB, Redis</b> and <b>Prometheus</b>.</li></ul> |      |           |                   |

- | Full Stack Developer Intern  | Acktec Technologies Pte Ltd | Singapore | 05/2021 - 08/2021 |
|--|-----------------------------|-----------|-------------------|
| <ul style="list-style-type: none"><li>• Led deployment, customization and integration of third-party softwares into company ecosystem, utilizing technologies such as <b>XML, React</b> and <b>Javascript</b></li><li>• Assisted in the maintenance and configuration of various aspects of company servers such as network protocols and security settings</li><li>• Implemented drag-n-drop feature in company's frontend application, using technologies such as <b>CSS, PHP</b> and <b>jQuery</b></li><li>• Spearheaded requirements gathering, planning and creation of new web applications for the company with <b>Wordpress</b>.</li></ul> |                             |           |                   |

## Education

- | Bachelor of Computing   | National University of Singapore | Singapore | 08/2019 - 15/2023 |
|---|----------------------------------|-----------|-------------------|
| <ul style="list-style-type: none"><li>• Major in Computer Science</li></ul> |                                  |           |                   |

## Projects

- | Coral Conservation   | Singapore | 05/2021 - 08/2021 |
|--|-----------|-------------------|
| <ul style="list-style-type: none"><li>• Spearheaded design and development, employing technologies like <b>ReactJS</b> with bootstrap to create a responsive and intuitive user interface for frontend, and leveraging on <b>Firebase</b> as backend for clients to store and retrieve information about coral reef conservation.</li><li>• Adopted <b>Github</b> and <b>Git</b> for code management and version control.</li><li>• Led the team in requirements gathering and project planning, effectively managing the product development process and ensuring alignment with client objectives.</li></ul> |           |                   |
| NUS Orbital Summer Project   | Singapore | 05/2020 - 08/2020 |
| <ul style="list-style-type: none"><li>• 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%.</li><li>• Led the development of the project, utilizing technologies like <b>MongoDB, ExpressJS, ReactJS, NodeJS</b> and google maps api.</li></ul>  |           |                   |
| Software Engineering Module Project  | Singapore | 08/2021 - 12/2021 |
| <ul style="list-style-type: none"><li>• Led a team to make a Human Resource CLI program in <b>Java</b>, performing extensive unit and integration testing on 20000 line of codes, achieving over 60%% code coverage using technologies such as <b>JUnit</b>.</li></ul>   |           |                   |