# TIN KAH ONG ISAAC

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## EDUCATION

**NATIONAL UNIVERSITY OF SINGAPORE**

Bachelor of Computer Science (Hons)

Aug 2019 – May 2023 (expected)

Cum. GPA: 4.17/5.00 (Second Class Honours, Upper Division)

**MERIDIAN JUNIOR COLLEGE**

Jan 2015 – Dec 2016

Five distinctions in GCE A Levels with a score of 87.5/90 (Mathematics, Physics, Chemistry, Economics, Project Work)

## SKILLS

**EXPERIENCED**

Python, Java, JavaScript, React

**FAMILIAR**

C, SQL, HTML, CSS

## EXTERNAL ACTIVITIES

**College of Alice & Peter Tan (CAPT)**

ORIENTATION GROUP LEADER

Collaborated in the planning and execution of Orientation Camp 2020 for CAPT, a college event to welcome and integrate over 200 new residents into their new residence, boosting college identity.

CLIMBING INTEREST GROUP HEAD

Cooperated with Sports Director of CAPT in spearheading the officialization of climbing as an interest group in CAPT which consists of over 100 members, creating another avenue for residents to pursue their interests.

## RELEVANT COURSEWORK

Software Engineering

Data Structures and Algorithms

Programming Methodology

Computer Organization

Computer Networks

Database Systems

## EXPERIENCES

**ACKTEC TECHNOLOGIES PTE LTD** | FULL STACK DEVELOPER INTERN

MAY 2021 – AUG 2021

- Deployment and customized open-source software for company, utilizing technologies such as XML, React and JavaScript
- Performed configuration of network protocol and security settings of company servers
- Assisted in debugging company application's frontend with CSS and PHP as well as implement drag-n-drop feature using jQuery
- Spearheaded ideation and creation of new web applications for company using WordPress

## PROJECTS

**CORAL CONSERVATION WEB DEVELOPMENT PROJECT**

- Utilized Figma to ideate and create mock-ups to visualize UI/UX of web application according to clients' requirements
- Employed Firebase as backend as backend to enable clients to store and retrieve information about coral reef conservation
- Employed ReactJS and Bootstrap to design and create pleasant and responsive UI/UX of web application
- Utilized git for code management and version control

**NUS ORBITAL SUMMER PROJECT**

- Employed 'MERN' (MongoDB, ExpressJS, ReactJS, NodeJS) stack to develop a web application that allowed students to search, select, plan and rank modules and lessons with increased ease and efficiency
- Implemented REST APIs as well as google maps API for location planning of web application
- Apollo 11 level of achievement

**SOFTWARE ENGINEERING MODULE TEAM PROJECT**

- Led a team to make a simple Human Resource CLI program in Java, allowing user to organize two different types of person databases – staff and applicant- and add, delete and edit various fields of each type of person
- Performed extensive testing by writing unit and integration tests, achieving over 60% code coverage
- Utilized git for code management and version control in a codebase with over 20,000 lines of code
- Wrote technical documentation such as user guides and developer guides to assist future users and developers
- Used FXML, JavaFX and scene builder to design GUI

**SOFTWARE ENGINEERING MODULE INDIVIDUAL PROJECT**

- Developed a CLI program in Java that allowed user to add and delete different kinds of tasks into a list and saves list for users
- Wrote technical documentation such as user guides and developer guides to assist new users and developers
- Made use of FXML, JavaFX and scene builder to design GUI