

Thanakon Kimsan

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EDUCATION

University of Melbourne

March 2021 – December 2023

Bachelor of Science, Computer Science Major

- **Relevant Coursework:** Algorithms & Data Structures, Object-Oriented Programming, Database Systems
- **Programming:** Python, Java, C, Kotlin, SQL, JavaScript
- **Languages:** English, Khmer, Thai

RELEVANT EXPERIENCE

Suncorp Group

Melbourne, VIC

Software Engineer Intern

Nov. 2022 – Present

- Developed RESTful KTable lookup API for the Event Streaming Platform using **Spring Boot** and **Kotlin**.
- Utilised OkHttp for efficient HTTP requests to OpenShift V3 endpoints with exception handling and error logging.
- Wrote comprehensive documentation for the KTable lookup API, including design, usage, and capabilities.
- Designed and implemented data pipeline using **ServiceNow** integrated with cloud hosted **MySQL** to extract DevOps Research and Assessment (DORA) metrics and transformed the data for visualisation in **Grafana**.

Melbourne Space Program

Melbourne, VIC

Flight Software Co-Lead

Jan. 2023 – Present

- Leading development of the on-board computer subsystem for student research and designed imaging cube satellite.
- Crafting a low-level API endpoint, complete with an extensive interface and hardware requirements documentation.

Flight Software Engineer

Aug. 2022 – Jan. 2023

- Integrated NASA FPrime software (**C++**) onto Raspberry Pi board for satellite flight applications.
- Extensive research into cross-compilation of FPrime onto FreeRTOS on a STM32 processing board for CubeSat.

Project Phobos – Aerospace & Rocket Engineering Society

Melbourne, VIC

Software Developer

Aug. 2022 – Present

- Building a rocketry flight simulation software "ASTRA" providing engineers the ability to run CAD models through atmospheric simulations for high precision. Tech Stack: **React**, **TypeScript**, **Python**, and **Firebase**.

PROJECTS

Fitbeats / MERN / Web application utilising the Spotify API to provide users with the ability to create custom workout playlists based on their preferred music and exercise activities.

Melbourne City Footpath Analysis / C / Program written to process urban footpath data into dictionary format by implementing a quadtree data structure for point-region and range query analysis.

LEADERSHIP

CISSA – Computing Information Systems Students Association

Melbourne, VIC

Publicity Director

Sep. 2021 – Sep. 2022

- Oversaw the increase of CISSA's online presence and engagement with the wider community, resulting in over 1200 members and over 4000 online followers. Led a subcommittee of three teams comprised of 7 students.
- Coordinated the publicity schedule for over 80 events during the year, creating over 200 graphics with Figma.
- Boosted the club's main Facebook page, Instagram, and Discord membership by 25%, 73%, and 63% respectively.
- Generated over \$7,000 in revenue through successful event planning and management, selling 700+ flagship event tickets.

Faculty of Science – University of Melbourne

Melbourne, VIC

Melbourne Peer Mentor

Feb. 2022 – Jun. 2022

- Mentored a cohort of up to 15 first year students to develop a smooth transition into tertiary education.