

Thanakon Kimsan

kimsanthanakon@gmail.com | <https://thanakon.com> | [linkedin.com/in/thanakon/](https://www.linkedin.com/in/thanakon/) | [GitHub](#) | Melbourne, VIC

EDUCATION

University of Melbourne

Mar. 2021 – Dec. 2023

Bachelor of Science, Computing and Software Systems Major

- **Coursework:** Algorithms & Data Structures, Software Modelling & Design, Database Systems, Computer Systems
- **Programming Languages:** Python, Java, C, Kotlin, SQL, JavaScript
- **Languages:** English, Khmer, Thai

RELEVANT EXPERIENCE

Suncorp Group

Melbourne, VIC

Software Engineer Intern

Nov. 2022 – Present

- Uplifting test data tool UI with **React.js** for efficient test data management across multiple environments.
- Maintaining full-stack xAPI for SunApp with **Node.js** and **Express.js**, enabling seamless frontend-backend integration.
- Uplifting banking data test API with **Spring Boot**, **Java**, and **PostgreSQL** by implementing additional query features.
- Developed a RESTful KTable lookup API with **Spring Boot**, and **Kotlin**, using an H2 database on Kubernetes, enhancing testing and state management for Event Streaming Platform engineers.
- Built a **Grafana** dashboard to monitor DevOps Research and Assessment metrics from Bitbucket, Jira, and ServiceNow.

Melbourne Space Program

Melbourne, VIC

ACRUX-II On-Board Computer Co-Lead

Jan. 2022 – Present

- Leading development of the on-board computer subsystem team for student research and designed imaging cube satellite.
- Designing software and hardware using embedded systems programming techniques and hardware interface protocols.
- Building a low-level subsystem endpoint, complete with an extensive interface and hardware requirements documentation.
- Integrated NASA FPrime software (**C/C++**) onto Raspberry Pi board for cube satellite flight applications.

Project Astra – Aerospace & Rocket Engineering Society

Melbourne, VIC

Software Developer

Aug. 2022 – Apr. 2023

- Built a rocketry flight simulation software providing engineers the ability to run CAD models through atmospheric simulations for high precision.
- Developed functionality to accept simulation calls in **pandas** and generate an image based on rocket parameters.
- Utilised **React.js** and **Firebase** APIs to retrieve and display images stored in **Firebase** within on the client side.

PROJECTS

Project Vault / <https://thanakon.com/projects> / Projects showcase on portfolio website.

Snaplash Images / **React.js** / Web app enabling users to search and display high-quality images using Unsplash API.

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 resulting in over 1200 members and over 4000 online followers.
- Led a subcommittee of 7 students coordinating 80 events during the year, creating 200 graphics with Figma.
- Increased 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.