

Suah Kim

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Education

University of Auckland

Auckland, New Zealand

BE(Hons) in Software Engineering, GPA: 8.857/9

January 2024 – Present

Relevant Coursework: Principles of Programming, Introduction to Engineering Computation and Software Development, Fundamentals of Computer Engineering, Mathematical Modelling 2, Object-Oriented Programming, Software Engineering Theory

Awards and honours: Alex Tan Scholarship (2025), Dean's Honours List (2024), First in Course Award in COMPSCI 101, LATIN 100G, PHYSICS 102, ENGGEN 121, CHEM 150

Coursera (Stanford Online & DeepLearning.AI)

Online

Machine Learning Specialisation by Andrew Ng

November 2024 – December 2024

Projects

Personal Portfolio Website

[Live Demo](#) | [Github](#)

Web Development

July 2025

- Developed full-stack web application using Flask, PostgreSQL and SQLAlchemy ORM with responsive UI featuring dark/light theme switching via Tailwind CSS.
- Implemented automated email notifications, form validation, admin functionality and deployed using Docker containerisation on Google Cloud Run.

Time Crash

Game Development

May 2025

- Developed Unity/C# puzzle game as part of 8-person interdisciplinary team during semester-long game jam, contributing to core mechanics and visual assets.
- Received "Most Mechanical Feel" award, showcasing expertise in game mechanics design and implementation within collaborative development environment.

IMC Prosperity 3

Algorithmic Trading Competition

April 2025

- Developed Python-based algorithmic trading system implementing market-making strategies, order book analysis and risk management for global student competition.
- Achieved 3rd place in New Zealand through collaborative development with engineering & CS students using Git version control and iterative strategy optimisation.

Risk Map

[Github](#)

Java Coursework

May 2025

- Developed Java pathfinding application using breadth-first search algorithms to calculate optimal routes between countries with fuel cost analysis.
- Implemented graph data structures with adjacency lists, CSV data processing and custom exception handling for route optimisation.

Mind Game

[Github](#)

Java Coursework

May 2025

- Developed strategic Java CLI game featuring AI opponent with three difficulty levels including adaptive learning algorithms and power colour scoring.
- Applied design patterns and game state management to implement colour-guessing mechanics with varying AI strategies.

Operator Management System

[Github](#)

Java Coursework

April 2025

- Developed Java CLI application managing activity operators and review systems using inheritance hierarchy with abstract/concrete class implementations.
- Implemented search functionality, activity management and review ranking system using core OOP principles.

Experience

iSmart Tutoring

Auckland, New Zealand

Maths & English Tutor

April 2023 – August 2023 / February 2024 – July 2024

- Tutored Maths and English to year 0 to 10 students in classes of 4-20.
- Developed individual lesson plans and tracked student progress.
- Assisted special needs students in working toward their year level.

IGE Seoul

Seoul, Korea

Admin & Translator

January 2023 / September 2023 – December 2023

- Supported programme operations through administrative management and English - Korean translation for Canadian international education placements.
- Maintained regular correspondence with Canadian school district representatives to facilitate student placements.
- Provided Korean - English interpretation at international education fairs connecting prospective families with Canadian school representatives.

IVY Top Reading

Seoul, Korea

ESL & Reading Teacher

May 2022 – November 2022

- Provided ESL and reading lessons to year 0 to 8 students in classes of 3-10.
- Adapted teaching methods based on individual student proficiency in reading, writing, listening and speaking.
- Developed teaching materials and maintained detailed records of student progress and performance.

Skills & Interests

- **Technical:** Python, Java, C, MATLAB, R, HTML/CSS, Flask, Docker, PostgreSQL, Google Cloud Platform, Git, Github
- **Languages:** English (proficient), Korean (native)
- **Soft skills:** Team collaboration, creativity, problem-solving, critical thinking, time management
- **Interests:** Machine Learning, AI integration, algorithmic trading