

James Gai

@Portfolio

Auckland | NZ citizen | 021 648 286 | james1412049013@gmail.com | @LinkedIn | @GitHub

SKILLS

Languages : Java, Python, JavaScript, TypeScript, C#

Frameworks : Angular/Ionic, React, RESTful API, Flask, Cypress, .NET Core, MERN stack, JMeter

Others : Machine Learning, Agile development, Docker, GitHub workflow, CI/CD pipelines, AWS, Linux, Jira, Trello

EDUCATION

Bachelor of Engineering (Honours) | *The University of Auckland*

2021 – 2024

- Received specialization invitation letter from Mechanical and Mechatronics department.
- Dean's Honours List 2024 (top 5% students).
- Published final year research paper: "Real-Time Learning-Based Gesture Generation for Pepper Robot Using Audio" on Australasian Conference on Robotics and Automation (ACRA 2024).

EXPERIENCE

Full-stack Developer | *Loadrite*

11/2024 – 02/2025

- Developed and integrated a chatbot with tour guide support into an Angular/Ionic web app for user navigation.
- Researched and adapted LLM/ML solutions within budget constraints, resolving technical conflicts.
- Trained and deployed ML model on AWS with Docker and GitHub CI/CD; built a C# API Gateway for global access.
- Performed unit and integration tests using Jasmine and Cypress to ensure reliability.
- Met goals through agile retrospectives and Jira, delivering final presentation and documentation beyond expectations.

Research Assistant | *The University of Auckland*

11/2023 – 02/2024

- Demonstrated great understanding of React and Flask knowledge from building robot management web app.
- Mastered project management and research skills by analyzing and conducting chronological research plan on Trello.
- Designed Firebase database schema and RESTful endpoints to handle data transmission from robotic devices.

Private Tutor

11/2023 – 02/2024

- Delivered one-on-one tutorial sessions in Python programming to primary school student.
- Created age-appropriate learning materials and activities to introduce core concepts.

Part I Engineering Mentor | *The University of Auckland*

07/2023 – 10/2023

- Provide academic supports; identified common student queries and shared mentorship experiences with engineering department, demonstrating excellent communication and mentorship skills.

Metaverse SDK And Server Developer | *DigiSomni*

11/2022 – 01/2023

- Built and deployed multiple open-source multiplayer application servers using Docker and Linux.
- Actively contributed to weekly meetings for progress updates and planning, adhering to agile development principles.
- Presented well-structured documentation for seamless project handover.

PROJECTS

@Personal Website

06/2024

- Built responsive portfolio website with Angular and deployed on Vercel, featuring skill set and project showcases.

@Enhancing Human Motion With Flexible Style Control

03/2024 – 10/2024

- Final year project on co-speech gesture generation using audio input and GAN-based models.
- Led project planning with Trello and applied EDA for dataset insights and reported progress biweekly.
- Trained and deployed PyTorch deep learning model on Pepper Robot for real-time synchronized gestures.

@Pendulum

11/2022 – 02/2023

- Collaborated in a team of 5 to develop Java-based desktop app for warehouse management, applying OOP principles.
- Communicated with stakeholders, eliciting requirements and ensuring feature delivery aligned.
- Developed secure user authentication using OAuth and token-based flow backed by MySQL.
- Implemented two-factor authentication with JavaMail API, delivering time-limited email tokens.

VOLUNTEER

Front Counter Translator & Assistant | *NZ Police*

09/2025 – Now

- Provided Mandarin-English translation services to support communication with public and helped organize chore tasks.

Epsom Community Patroller | *CPNZ*

05/2025 – Now

- Community Patrols of New Zealand, worked with the NZ Police and other organizations to create safer communities.

Retail Assistant | *SPCA*

05/2025 – Now

- Assisted customers with clothing selections; handled donations and provided excellent retail service.