

## James Gai

5 Huakaroro Road, Mt Roskill, Auckland 1041 | +64 21 648 286 | james1412049013@gmail.com | @LinkedIn | @GitHub | @Portfolio

### 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, Firebase

**Soft Skills** : Teamwork, Dependability, Time management, Troubleshooting, Public speaking, Mentorship

### EDUCATION

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

2021 – 2024

- GPA: 7.7/9
- Received commendable specialization invitation letter from Dr Hazim Namik in 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 website chatbot with tour guide into Loadrite's Angular/Ionic web app to assist user navigation based on queries.
- Researched LLM and ML solutions for chatbot implementation; adapted plan and resolved conflict with manager due to budget constraints.
- Trained and deployed ML model on AWS using Docker and GitHub CI/CD pipelines; built API Gateway using C# to support global chatbot access.
- Conducted unit and integration test using Jasmine and Cypress to ensure system reliability.
- Highly engaged in retrospectives, aligning project goals with requirements on Jira and reinforcing solid understanding of agile development; delivered final presentation and documentation that exceeded project 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

**Demo Blaze Performance Testing** | *Personal*

03/2025

- Created JMeter load test script to evaluate website performance by simulating user access, loads, and reviewing test outcomes.

**Enhancing Human Motion With Flexible Style Control** | *The University of Auckland*

03/2024 – 10/2024

- Final year research project that focused on co-speech gesture generation, utilizing audio as input and GANs as baseline.
- Planned and tracked progress with Trello; applied EDA techniques for dataset analysis and reported updates in biweekly meetings.
- Trained and deployed a PyTorch-based deep learning model on Pepper Robot, enabling real-time communication with synchronized body gestures.

**UoAMedia** | *The University of Auckland*

03/2024 – 06/2024

- Versatile platform integrating multimedia and AI technologies, specifically designed to engage users from teenagers and young adults using MERN stack.

- Designed initial web prototypes using Figma and led a team of 6 in evaluating tech stack and formulating well structured project plan using Trello.
- Experienced in MERN stack by self-learning and actively organizing regular meetings.

**FlashGamer** | *The University of Auckland*

07/2023 – 08/2023

- Android app showcasing video games retrieved from custom-designed Firebase database.
- Project ranked in the top 5 out of 45 groups and received constructive feedback during final presentation.

**Pendulum** | *Diamond Homes Limited*

11/2022 – 02/2023

- Worked in multidisciplinary team of 5, developing Java-based desktop application for warehouse management purposes.
- Designed user-friendly UI using JavaFX Scene Builder; demonstrated solid understanding of OOP.
- Engineered cybersecure user authentication system leveraging token-based authentication with OAuth, integrating MySQL for persistent user credential storage.
- Implemented two-factor email authentication using JavaMail API, providing 60-seconds verification token to enhance security.

## REFEREES

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References available upon request.

## VOLUNTEER

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**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.

**Gardening Assistant** | Self-employment

12/2018 – 02/2025

- Assisted with general garden maintenance tasks such as mowing, pruning, and disposing of green wastes.
- Gained hands-on experience with tools and outdoor physical work under harsh environment, reinforcing ability to handle pressure.