Lucas Kim

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PROFILE

I am passionate about future-oriented and innovative technologies, with strong interests in artificial intelligence, big data analytics, and AI automation solutions. I have been developing an AI-powered roadmap generator web application called *"Future Scope"* during a hackathon and am currently building a personal mobile app called *"Planary"*. In my spare time, I play football and train boxing. I speak both English and Korean.

EDUCATION

Bachelor of Information Technology   Brisbane, Queensland | 02/2024 ~ 12/2025

- University: **Queensland University of Technology**
- Major: **Computer Science**
- Minor: CGI (Computer Generated Imagery)
- Award: **Executive Deans' Commendation of Academic Excellence** | Semester 1, 2024

Diploma in Information Technology   Brisbane, Queensland | 07/2023 ~ 02/2024

- Queensland University of Technology

SKILLS

Python | C | C# | Java | JavaScript | TypeScript | AVR assembly | HTML | CSS | Node.js | React.js | React Native |

Express.js | Vercel | Vite | AWS | Docker | GitHub | Linux | SQL | API | Sklearn | Keras | TensorFlow | Pandas |

NumPy | Matplotlib | Customer Service | Teamwork | Communication | Problem-solving | Leadership | Agile

PROJECTS   Check for more projects on LinkedIn

BRKR   Project Member – Tanda x Claude GenAI Hackathon | 11/2025 ~ 11/2025

- Developed 'BRKR', a networking tool derived from Ice Breaker, using **Vite** and **TypeScript.** Enables admins to host events, generate QR codes, and customize participant input fields.
- Participants scan the QR codes to input their information, which is then used to create profiles. Profiles can be browsed Tinder-style to efficiently connect with others during hackathons or networking events.
- Deployed the application on **Vercel** to provide a live demo.

Future Scope   Project Leader – Winter Hackathon (Winner) | 08/08/2025 ~ 10/08/2025

- Developed an interactive AI-powered web application using **JavaScript** and **React.js**. It enables users to reflect on past actions and identify future steps to achieve their goals.
- Designed the medium fidelity prototype UI using **Figma**, then implemented responsive layouts with **HTML** and **CSS**.
- Built server-side logic with **Node.js** to handle user requests and used **OpenAI API** for automated AI-driven goal roadmap generation and used **GitHub** to ensure consistent collaboration and code management.

Hand Gesture Recognition   Project Member - **Code Network**, QUT | 02/2025 ~ 05/2025

- Developed a **hand gesture recognition model** using **Python, Keras, and Sklearn**, implemented and tested in **Jupyter Notebook**.
- Collected and annotated datasets for 10 gesture classes, uploading them to **Hugging Face** for training and sharing.
- Applied **bounding box annotation** for precise labelling, improving model accuracy while working effectively as part of a **team**.

Bionauts Website   Team Member – **IFB399**, QUT | 06/2025 ~ 11/2025

- Built a student-focused Nature Adventure Event **website frontend** using **HTML**, **JavaScript**, **Bootstrap**,

CSS, and **Node.js**. Facilitated effective **collaboration** with team members using multiple **GitHub** branches.

- Allows teachers to search and book adventures for students, and students can interact by asking questions to teachers and registered scientists and using Instagram-like story sharing and photo posting.
- Enhances student learning about nature creatures and streamlines teachers' ability to book desired adventures through a user-friendly web platform.

Video Transcoder   Team Member – **CAB432**, QUT | 07/2025 ~ 11/2025

- Built a **video transcoding web application** that converts MP4/MOV/MKV files into **HEVC H.265** format and returns metadata.
- Implemented **MFA with TOTP** and managed sensitive credentials securely through **Secrets Manager** and **Parameter Store**.
- Designed and implemented a **microservices architecture** using EC2 (frontend), ECS (transcoder & authentication), and Lambda + S3 + DynamoDB (storage) to improve scalability and maintainability.
- Implemented **asynchronous job processing with SQS** and custom CloudWatch metric–based autoscaling to scale transcoder worker tasks up to 3 instances; added DLQ for failed jobs.
- Developed REST APIs via **API Gateway** for frontend–backend communication, and used **CloudFormation** to provision ECS clusters, API Gateway, and SQS/DLQ resources.

CLUBS

Code Network

- Hand Gesture Recognition ML Model   QUT | 02/2025 ~ 06/2025
- Winter Hackathon Winner – Future Scope   QUT | 08/08/2025 ~ 10/08/2025

CERTIFICATES

- 14/02/2025: **Microsoft Azure Data Fundamentals Certificate**   Microsoft
- 14/02/2025: **Microsoft Azure AI Fundamentals Certificate**   Microsoft

EXPERIENCE

Food Server   Caravanserai | West End, Queensland | 06/2025 ~ Present

- Delivered a **high standard of customer service** by anticipating guest needs and ensuring a positive dining experience.
- Developed strong **teamwork** and **communication** skills by supporting colleagues and maintaining clear communication in fast-paced situations.
- Strengthened **problem-solving** skills by working with the team to manage challenges during peak service times.

Steel Fixer   Zed Contracting | Brisbane, Queensland | 08/2025 ~ 10/2025

- Enhanced **team problem-solving**, **deadline management**, and **teamwork** skills by completing steel fixing projects to strict deadlines.
- Collaborated with team members and site managers to ensure all steel work was finished on time, allowing concrete pours to proceed without delays.
- Worked effectively under pressure in a fast-paced construction environment, consistently **meeting project requirements** and **quality standards**.

Code Network Winter Hackathon Winner   Brisbane, Queensland | 08/08/2025 ~ 10/08/2025

- **First Place Winner** (out of 21 teams) – Team "Soy Koreano"
- **Led** the project from ideation to delivery, guiding discussions on which features to implement, prioritise, or drop to align with the hackathon theme.
- Facilitated **role allocation**, **team communication**, and **collaboration**, gaining valuable insights into **effective teamwork** and **leadership**.
- Strengthened my **presentation** and **persuasion skills** by delivering the final presentation to judges and audience.
- QUT Article: Hacking Ambition into Action: Code Network's 2025 Winter Hackathon

REFERENCE

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