

BRAYDEN SCOTT CHEN

Computer Science Undergraduate | Artificial Intelligence & Big Data
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PROFESSIONAL SUMMARY

Computer Science undergraduate specialising in Artificial Intelligence and Big Data, with hands-on full-stack development experience across Python, Java, TypeScript, and JavaScript, plus data analytics in Power BI. Hackathon experience shipping production-grade web applications featuring LLM integration, secure database design, and third-party API workflows. Proven to perform under pressure through national military service and competitive technical events. Seeking a software engineering internship to contribute to real-world, large-scale systems.

EDUCATION

BSc Computer Science - Artificial Intelligence & Big Data | SIM - University of Wollongong *Currently Enrolled*

Advanced Level (A-Levels) | Jurong Pioneer Junior College 2021 – 2022

Ordinary Level (O-Levels) | Chung Cheng High School (Main) 2017 – 2020

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, SQL, HTML, CSS

Frameworks & Libraries: Next.js (App Router), React, Node.js, Tailwind CSS

Databases & Cloud: PostgreSQL, Supabase, AWS

APIs & Integration: REST APIs, Anthropic Claude API (LLM integration), Google OAuth2, Telegram Bot API

Data & Tools: Git, Power BI, Microsoft Excel, Word, PowerPoint

Concepts: Full-stack development, RBAC, row-level security (RLS), database design, Agile / Scrum, UML

PROJECTS & COMPETITIONS

Fall In - BrainHack Web Development Hackathon | Finalist 2026

- Built **Fall In**, a full-stack Next.js 16 (App Router) platform for coordinating military training logistics, using TypeScript, Supabase (PostgreSQL), and Tailwind CSS across 18+ authenticated pages and 13 API routes.
- Integrated the **Anthropic Claude API** into a 1,100+ line in-app assistant supporting 13+ structured actions (bulk member management, packing-list generation, ownership transfer), gated by a permission-aware preview → confirm/reject workflow to prevent unauthorized data mutations.
- Designed a **row-level-security (RLS)** schema with 8 interrelated tables and SECURITY DEFINER functions enforcing hierarchical, rank-based access control (RBAC) at both the database and application layers.
- Built multi-channel notification delivery (Supabase + Telegram Bot API) with a cron-driven daily reminder system, plus Google OAuth2 calendar sync with automatic token refresh and Supabase SSR session auth.

MRT Commute Simulator - Singapore Stupid Hacks | 2nd Place 2026

- Developed a viral motion-based MRT commute simulation game (Train to Bishan) that uses device orientation sensors to simulate holding a handrail, with players reacting to crowded trains, crying babies, and loud videos.
- Collaborated with teammates on game logic and UI to model commuter scenarios such as fighting for and giving up seats; featured in **Lianhe Zaobao** for its creative use of technology and civic-mindedness commentary.

BrainHack AI Innovation Hackathon | Participant 2025

- Conceptualised, designed, and prototyped AI solutions with a cross-functional team under tight time constraints, then presented technical solutions to judges and peers.

Cyberthon Cybersecurity Hackathon | Participant 2021

- Solved time-bound technical challenges in a team environment, gaining hands-on exposure to security vulnerabilities, penetration-testing concepts, and application/network security principles.

WORK EXPERIENCE

Educator (Retail) | Lululemon *Jun 2025 – Present*

- Delivered personalised customer support by identifying needs quickly and recommending suitable products in a fast-paced retail environment.

- Managed Point-of-Sale (POS) transactions accurately and supported daily store operations, including restocking and back-of-house organisation.
- Collaborated with team members to maintain service standards and drive sales performance during peak periods.

Weapon Specialist | Republic of Singapore Navy

Jun 2023 – Jan 2025

- Maintained operational readiness of critical weapons systems, ensuring 100% uptime and compliance with strict military procedures and technical standards.
- Conducted inventory checks, documentation, and logistics coordination supporting daily operations across multiple units.
- Worked with cross-functional teams in safety-critical environments, following clear communication protocols and standard operating procedures; took on additional first-aid, firefighting/rescue, and quartermaster duties.

CERTIFICATIONS & CREDENTIALS

- Certified ScrumMaster (CSM) — Scrum Alliance
- BrainHack 2026 — Finalist, Web Development
- BrainHack 2025 — Certificate of Participation, AI Competition
- Cyberthon 2021 — Certificate of Participation, Cybersecurity Hackathon

LANGUAGES

English (Fluent) • Chinese (Fluent) • Portuguese (Limited working proficiency)