

GURVEER SINGH KHALSA

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SUMMARY

Final-year UNSW Computer Science (AI) and Actuarial Studies student (WAM 83; Dean's List 2026) building AI products at Alloy. Full-stack and infrastructure engineer across LLM systems, React/Node/PostgreSQL, .NET, and cloud automation, with experience shipping products end to end.

EXPERIENCE

AI Engineer, Alloy

May 2026 – Present

- Build AI product features across the full lifecycle at an early-stage prototyping startup, from technical design through production deployment.
- Integrated the Anthropic Claude SDK into the core application and implemented LLM routing and model orchestration through OpenRouter.
- Developed sandboxed execution environments over gRPC IPC and containerised workloads for deployment on Amazon ECS.

Systems & Infrastructure Engineer (Intern), Provecta

Sep 2025 – Mar 2026

- Deployed Cloudflare Zero Trust with WARP across 50+ OT endpoints, configuring split tunnelling and service-token authentication and resolving DNS filtering conflicts.
- Built PowerShell and REST API automations across Action1 RMM, SQL, Admin By Request, and LogManager to reconcile 100+ assets, report vulnerabilities, and audit privilege escalation.
- Shipped Zabbix monitoring for VMware/Hyper-V infrastructure and a maintenance module using Angular 17, ASP.NET Core, Entity Framework, and automated C# ticket generation.

Full Stack Developer, Delta Specialist English Tuition

Jun 2024 – Present

- Sole engineer for a production student management and learning platform, designing the React frontend, Node.js/Express API, PostgreSQL schema, and DigitalOcean deployment.
- Implemented JWT authentication and RBAC for admins, teachers, and students, plus access-controlled resource and assignment management.
- Built adaptive flashcards with spaced-repetition prioritisation from per-student performance data and CI/CD for automated, zero-downtime releases.

PROJECTS

Personal AI Assistant

2026

- Connected an AI server to Instagram, WhatsApp, Telegram, Messenger, calendar, email, and phone state to run personal automations across services.
- Automates context-aware replies during Do Not Disturb, extracts plans from group chats into the calendar, and files event photos to OneDrive using Hermes Agent and iOS Shortcuts.

Badminton Tournament Web App

2025

- Built and deployed a configurable tournament bracket for a live badminton event, with custom seeding, automatic byes, match progression, and a streamlined management UI.
- Modelled bracket progression and edge cases for uneven player counts; published the source at github.com/Sidak14/Double-Elim-Tournament.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, C#, C/C++, PowerShell, SQL, R

AI & Backend: Anthropic Claude SDK, OpenRouter, gRPC, Node.js, Express, ASP.NET Core, PostgreSQL, MySQL

Frontend: React, Angular, HTML/CSS, REST APIs

Cloud & Tools: AWS ECS, Docker, Git/GitHub, CI/CD, DigitalOcean, Linux, Zabbix, Cloudflare Zero Trust

EDUCATION

Bachelor of Actuarial Studies / Computer Science (Major: AI)

2023 – 2027

University of New South Wales (UNSW) | WAM: 83 (Distinction) | Co-op Scholar

- Dean's List 2026 | 2nd Place, CPMSoc Programming Competition (2024) | 3rd in NSW, Mathematics Extension 2 (2022)
- Events Team, UNSW Indian Society | Member: CSesoc, MechSoc | Working with Children's Check