

Aayush Bajaj

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Summary

- UNSW BSc(AI) graduate; Master of Statistics in progress. Shipped a Homebrew-distributed Go macOS app (Typtel), a multiplayer browser-game suite at arcade.abaj.ai, and a production website for an external client. Polyglot across Python, Go, TypeScript, and Rust; comfortable with Docker, AWS, and CI/CD pipelines. AWS Solutions Architect certified.

Experience

Team Lead — Medical Records System

Sydney, NSW

UNSW COMP3900 Capstone × Alpha-Cure Medical Centre

June 2024 - Nov 2024

- Led 5-person team through UNSW's Computer Science capstone delivering a medical records system to Alpha-Cure Medical Centre as the live client, enabling remote access for clinical staff.
- Built Flask REST API with Azure SQL database and React frontend; achieved 90%+ test coverage with Pytest and Cypress.
- Containerised the application stack with Docker and shipped via Git-based CI/CD; final deliverable accepted and demoed to the practice's clinical team.

Solo Developer & Maintainer

Homebrew Tap

Typtel — macOS Developer Telemetry

Dec 2025 - Feb 2026

- Built and shipped Typtel, a Go menu bar app + interactive TUI tracking system-wide keystrokes (modifiers, shortcuts, escape sequences), mouse distance, and typing speed; distributed via a personal Homebrew tap.
- Integrated macOS Accessibility APIs via CGEventTap for low-overhead global event capture; designed CLI subcommands for daily/historical stats and a configurable typing test (live WPM, layout emulation, AU/UK/US wordlists).

Technical Consultant — Web Infrastructure

Sydney, NSW

frizzande.io

2024 - 2025

- Delivered production website for external client at frizzande.io — Dockerised mail server, DNS, automated SSL, and Git-based CI/CD.

Full-Stack Developer — Multiplayer Browser Games

Production

Arcade Platform — arcade.abaj.ai

Mar 2025 - present

- Shipped 22 browser games (Chess, Battleships, Tetris, Go) with React, Tailwind, and Framer Motion; Socket.IO enables real-time multiplayer across networked devices.
- Built Node.js/Express backend with PM2 process management at 94% test coverage; Flutter mobile client in development.

Projects

abaj.ai — Personal Infrastructure Network

1,476 pages

- Operate a Hugo monorepo at abaj.ai with ~1,500 indexed pages and 14 subdomain applications (pegs, mines, arcade, tools, bots, timeline, ledger, math-map, globe, etc.); each hosts an independent app or demo with its own routing and data layer.

Build Your Own Git

ugit

- Implemented core Git internals in Python: object storage, tree parsing, commit traversal, and pack-file delta compression.

Bytelocker — Cross-Editor Encryption

- Encryption library in C with native Neovim (Lua) and Emacs (Elisp) plugins; three cipher implementations with comprehensive test suites.

Skills

Languages: Python, Go, TypeScript, JavaScript, Rust, Java, C, SQL

Backend: Flask, REST APIs, PostgreSQL, Azure SQL, OAuth2, JWT, Nginx, Express, Socket.IO

Frontend: React, Svelte, HTML, CSS, Node.js, Bun

DevOps: Docker, Azure, AWS, Git, CI/CD, Linux, Systemd

Testing: Pytest, Cypress, JUnit, TDD, Code Coverage

Education

University of New South Wales

Sydney, Australia

Master of Statistics

Feb 2026 - present

- In progress · expected completion Dec 2027.

University of New South Wales

Sydney, Australia

Bachelor of Computer Science (AI), Minor Mathematics

Feb 2021 - Sept 2025

Certificates

AWS Solutions Architect (SAA-C03)

Mar 2026

Amazon Web Services