

AVIJYA SHRESTHA

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EDUCATION

Macquarie University

Bachelor of Information Technology, Software Technology

Sydney, NSW

Jun 2023 – Jun 2026

- WAM: 79/100 (Distinction)
- “Medibank Undergraduate Scholarship” holder

EXPERIENCE

Software Developer Intern

Jul 2025 – Nov 2025

Robotic Marketer (Macquarie PACE Program)

Sydney, NSW

- Built a full-stack project management app (Django + React) on a 4-person Agile/Scrum team, adopted as a client-facing product offering for 10,000+ clients
- Designed MongoDB schemas for dynamic project data, tasks, comments, and user assignments, achieving sub-100ms API response times
- Automated transactional email notifications via SendGrid, handling ~1,000 emails/day
- Integrated OpenAI LLM with Retrieval-Augmented Generation (RAG) for context-aware content generation and in-app chatbot functionality

PROJECTS

Overclocked | Flutter, Supabase

GitHub: <https://github.com/up-the-hill/overclocked>

- Flutter commerce app for cafes and restaurants, backed by a Supabase Postgres database
- Wrote Postgres functions and triggers holding business rules for order and inventory state, wrapped in transactions to keep stock counts correct under concurrent orders
- Designed the schema and row-level security (RLS) policies enforcing per-tenant data isolation, with Supabase Auth for authentication
- Built TypeScript serverless (Edge) functions for backend logic and third-party integrations
- Unit and integration tests against a mocked Supabase backend

Sunsets | React, Hono, Postgres + PostGIS, TFjs, MapLibre GL JS

Live: <https://sunsets-on-a-map.com> · GitHub: <https://github.com/up-the-hill/sunsets-on-a-map>

- Full-stack web app for mapping sunset observations — users can search, view, and contribute sightings
- Interactive map UI with React 19, MapLibre GL JS, and Stadia Maps for location discovery
- Node.js/Hono backend with Drizzle ORM and PostgreSQL + PostGIS for geospatial querying
- Deployed TensorFlow.js on-server for sunset image classification; uploads stored in AWS S3
- Containerized with Docker, served behind Nginx with SSL via Let's Encrypt

Blackout | JavaScript (browser extension)

Chrome: <https://chromewebstore.google.com/detail/ffcdlpjolgglhiapammdbhdogcgjbbki> · Firefox: <https://addons.mozilla.org/en-US/firefox/addon/blackout-poetry/> · GitHub: <https://github.com/up-the-hill/blackout>

- Browser extension for creating blackout poetry on any web page; published on Chrome and Firefox
- Injects HTML and CSS via content scripts to apply blackout effects directly onto live page DOM
- Maintained cross-browser codebase targeting both Chrome Manifest V3 and Firefox WebExtensions APIs

arch-update | Bash (open source contribution)

GitHub: <https://github.com/Antiz96/arch-update/pull/608>, <https://github.com/Antiz96/arch-update/pull/617>

- Merged PR adding version diff highlighting and column alignment to the pending update list (608, shipped in v3.20.0), and fixes for the feature (617, shipped in v3.20.2)

tree-sitter-ink | tree-sitter, JavaScript, C

GitHub: <https://github.com/up-the-hill/tree-sitter-ink>

- Tree-sitter grammar for the ink scripting language — the most complete ink parser as of 2026, with full Unicode support and syntax-highlighting queries for Helix
- Fork trimming dependencies and extending language coverage; tested against a corpus of known-good public ink scripts

...and more shipped projects and open-source work at github.com/up-the-hill.

SKILLS

Languages: C/C++, Java, JavaScript, TypeScript, HTML, CSS, Python, Bash, Go

Frameworks: React, Node.js, Next.js, Django, Hono, Express, Flutter

Developer Tools: Git, AWS, Google Cloud, CI/CD, Terraform / OpenTofu, Docker, Ansible, Linux, Jest / Vitest, Playwright

Databases: SQL and NoSQL databases (PostgreSQL, Firebase, MongoDB, Redis)

AI/ML: OpenAI API, Retrieval-Augmented Generation (RAG), TensorFlow.js, ONNX

INTERESTS

Arch Linux user repository package maintainer · Neovim · home server (WireGuard VPN, Prometheus/Grafana, self-host everything) · open source · split kebs · ABRSM grade 5