

Arjun Avtani

Software Engineering Student | AI and Full-Stack Product Builder

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Summary

Software engineering student and product builder with experience across AI systems, full-stack development and clinical analytics. Helped scale NextDocs to 70,000 users and A\$400K ARR; seeking software engineering and technology roles.

Experience

Johnson & Johnson MedTech | *Software Engineer (ESIPS)* | Sydney, Australia | Jun 2026 - Nov 2026

- Building a predictive analytics MVP for VELYS robotic-assisted surgery, linking surgical logs to outcomes through a provenance-aware pipeline.
- Deriving 3D navigation features and benchmarking interpretable and neural models with case-level validation.

NextDocs | *Founding Engineer* | Sydney, Australia | Apr 2026 - Present

- Drove product engineering across onboarding, authentication, templates, canvas and launch UX for 70,000 users and A\$400K ARR.
- Built real-time human-agent co-editing, presentation and video workflows across web and desktop using React, TypeScript, Yjs, GSAP, Durable Objects, Azure and MCP.

KNOY Energy | *Co-Founder and CEO* | Sydney, Australia | Jan 2026 - Apr 2026

- Built an environmental-project intelligence platform that converts SEARs, EIS chapters and technical studies into a traceable evidence graph.
- Shipped source-to-export workflows for requirements, issues and commitments registers with page-level citations and human review.

UniSlay | *Co-Founder and CEO* | Sydney, Australia | Aug 2024 - Aug 2025

- Launched a peer-to-peer advisory platform used by 500+ students across 600+ universities.
- Built real-time booking and authentication, led product and growth, and exited after the company was acquired.

Additional Experience

Teletrack | *Software Engineer Intern* | Ultimo, Australia | Jul 2025 - Sep 2025

Improved responsive workflows, integrated Xero and removed manual bottlenecks across Maintenance and Dockets.

Intraverse Technologies | *Founder and Full-Stack Developer* | Sydney, Australia | Jan 2024 - Aug 2024

Delivered 10+ SaaS dashboards and AI products from requirements and Figma design through production deployment.

Sydney Precision Data Science Centre | *ML Researcher* | Sydney, Australia | Aug 2024 - Nov 2024

Modelled links between extreme heat and heart-failure admissions using regression and ensemble methods on three years of hospital data.

IBM | *IBM Z Student Ambassador* | University of Sydney | Feb 2026 - Present

Deliver technical workshops and demos on enterprise computing to engineering students.

Engineers Australia | *Student Ambassador* | University of Sydney | Dec 2024 - Present

Support engineering students through campus outreach, events and practical guidance on professional pathways.

Education

University of Sydney | *Bachelor of Engineering (Honours)* | Sydney, Australia | 2023 - 2027

Majors: Intelligent Information Systems; Innovation and Entrepreneurship | WAM: 75

Technical Skills

AI systems: Context engineering, multi-agent orchestration, agentic workflows, RAG, model routing, tool use, evaluations, structured outputs and MCP

Product and collaboration: React, Next.js, TypeScript, Yjs, GSAP, Cloudflare Durable Objects and real-time co-editing

Languages, data and cloud: Python, SQL, C++, Java, PostgreSQL, Supabase, Azure, Vercel, Docker, GitHub Actions and Cloudflare Workers

Awards and Programs

Honi Soit Writing Competition: Non-Fiction Runner-Up, May 2026

FoundersHack Sydney: Top 5 Finalist, NextGen Ventures, 2026

INCUBATE Pre-Accelerator: University of Sydney, Mar 2026 - Apr 2026