

HARDIK VERMA

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PROFESSIONAL SUMMARY

Third-year student in a four-year Software Engineering (Honours) bachelor's degree at UNSW (Australian Citizen, WAM: 81.875) with hands-on experience designing and shipping production-scale systems. Recently built a cloud-native 3-microservice application on AWS and an MCP server exposing 25+ REST endpoints as AI-callable tools, enabling full LLM-driven workflow automation as a production feature. Proficient in Python, Java, JavaScript/TypeScript, SQL, and modern DevOps practices including CI/CD pipelines, containerisation, and cloud infrastructure. Strong foundation in algorithms, data structures, and applied AI.

EDUCATION

University of New South Wales (UNSW Sydney) - Bachelor of Engineering (Software) (Honours) Jan 2024 - Dec 2027
WAM: 82.421 | Relevant courses: Artificial Intelligence, Probability and Statistics, Algorithms & Data Structures, Database Systems, OOP, Computer Networks, Algorithm Design & Analysis, Software Testing & QA, Extended Security Engineering, Software Construction

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, SQL, Dafny, Shell

AI & LLM: Prompt Engineering, LLM APIs (Anthropic Claude, OpenAI), Agentic Workflows, Tool Calling, Model Context Protocol, AI Agent Design

Backend & Data: Node.js, Express, REST APIs, PostgreSQL, Pandas, Scikit-learn, Jest, JUnit, JSON, Socket programming

DevOps & Cloud: Git, GitHub, Docker, CI/CD, AWS (EC2, S3, IAM), Microservices, Linux (Bash)

Frontend & Docs: React, HTML, CSS, Swagger/OpenAPI

Concepts: Data Structures & Algorithms, OOP Design Patterns, System Architecture, Graph Algorithms, Software Testing & QA, System Design, Agile Development

RECENT TECHNICAL PROJECTS

Financial Sentiment & Market Event Visualiser Python · HTML · AWS Lambda · API Gateway · S3 · Docker
Full-Stack Developer | https://github.com/Hardik-V/3011_Bravo Feb 2026 - Apr 2026

- Winner of the annual Optiver industry prize for excellence.
- Designed and deployed a 3-service architecture (ingestion, processing, visualisation) on AWS (Lambda, API gateway) with independent scaling, eventual consistency, and failure handling.
- Built a full-stack visualisation pipeline ingesting historical OHLC price data (yFinance) and keyword-based news sentiment scores, rendering as an interactive star-map, surfacing visual patterns between market movement and sentiment signals

E-Commerce Storefront Platform React · Node.js · PostgreSQL · Vercel · MCP
Full-Stack Developer | https://github.com/nloudev/H14B_CoolCoolCool Mar 2026 - Apr 2026

- Received a letter of recommendation from Fethi Rabhi, Director of Studies for undergraduate Software Engineering at UNSW, for exceptional project quality.
- Engineered 25+ REST API endpoints with 93% test coverage across buyer/seller workflows covering product listings, order management, and transaction processing, with full input validation and error handling.
- Built a Model Context Protocol (MCP) server exposing all 25+ REST endpoints as AI-callable tools, enabling natural language automation of buyer/seller workflows as a customer-facing feature; allows end-to-end workflow automation via LLM agents.

EXPERIENCE

Private Tutor - Mathematics & Sciences Sydney, NSW
Self-Employed Mar 2023 - Present

- Tutor HSC students in Advanced Mathematics and Physics, delivering structured lesson plans aligned to the NSW curriculum

Public Relations Director - UNSW Hindu Society Sydney, NSW
University of New South Wales Feb 2025 - Present

- Grew social media engagement by ~60%** through data-driven content campaigns; coordinated cross-functional teams to deliver large-scale campus events, building project management and stakeholder communication skills

Australian Air Force Cadets Sydney, NSW
Cadet Feb 2021 - Aug 2023

- Completed cadet proficiency training. Operated in structured, procedure-driven environments demanding precision and reliability; developed discipline, teamwork, and leadership through formal training programs and field exercises

VOLUNTEER WORK

Bhai Kanahaiya Manav Sewa Trust Haryana, India
Fundraising & Community Outreach Volunteer Dec 2019 - Present

- Secured financial contributions through targeted outreach campaigns and initiated community engagement through marketing initiatives