

Aryan Adhikari

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PROFILE SUMMARY

Software Engineering graduate with proven ability to quickly master new technologies and deliver measurable impact, reducing manual workload by 65% and improving operational efficiency by 30% through ML-driven automation. Strong work ethic demonstrated by completing dual thesis research while maintaining professional internships. Ready to contribute immediate value through rapid learning and practical problem-solving.

WORK EXPERIENCE

Jacaranda Flame Consulting

Sydney, NSW

Software Engineer Intern

Nov 2024 – Feb 2025

- Architected ML-based data validation system using Python, scikit-learn, and PostgreSQL processing 100,000+ healthcare records with **84%** accuracy, implementing K-means clustering, Isolation Forest, and Neural Networks while reducing manual workload by **65%**
- Built RESTful APIs and automated data pipeline with comprehensive testing, leading technical implementation using Git workflows and Agile sprints across 5-person team

LearnGrowBecome

Sydney, NSW

Software Engineer Intern

Jun 2023 – Jul 2023

- Developed custom automation solutions for 10+ SMB clients using Python, JavaScript, and SQL, building inventory systems and analytics dashboards improving operational efficiency by **30%**

CodeCamp Australia

Sydney, NSW

Coding Instructor

Apr 2023 – Apr 2024

- Taught programming fundamentals to 50+ students aged 7-13 using Python, designing hands-on projects and curriculum achieving

TECHNICAL PROJECTS

YAAKE – AI-Powered Career Platform | React, Node.js, MongoDB, Google Gemini AI

Aug - Oct 2025

- Built full-stack recruitment platform with AI-powered resume parsing, ATS scoring, mock interviews, and cover letter generation, implementing JWT authentication, role-based access control, rate limiting, and MVC architecture with 10+ feature modules

Over-save – Budget Tracking Application | Java, Spring Boot, PostgreSQL, OAuth2

Sep – Nov 2025

- Developed financial management platform with expense tracking, savings goals, and gamification system, implementing Spring Security with OAuth2, email notifications, and financial analytics across 15+ database tables with 16 REST endpoints

Lead Generation System | Python, N8N, APIs, PostgreSQL

Jun - Jul 2024

- Built automation pipeline processing 500+ daily postings with web scraping and data transformation, reducing manual processing by **95%**

EDUCATION

University of Sydney

Sydney, NSW

Bachelor of Engineering Honours (Software)

Graduation: Nov 2025

- Research:** Dual thesis on Comparative performance Analysis on K-means clustering variants, developing a framework optimization (23% faster convergence) and fairness-aware ML methods

LEADERSHIP & INVOLVEMENT

Biotech Mentorship Program

Sydney, NSW

Technical Mentor

Sep 2023

- Mentored 6 high school students in computational biology project, securing top-3 regional placement

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, SQL, C, HTML/CSS

Frameworks & Libraries: React, Node.js, Express, Spring Boot, scikit-learn, pandas, TailwindCSS

Tools & Technologies: Git, PostgreSQL, MongoDB, REST APIs, JWT, OAuth2, Docker, AWS, Agile/Scrum