

POUYA ALAVI NAEINI

Graduate Software Engineer | Full-Stack, Mobile & Applied AI

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PROFILE

I am a final-year Bachelor of Information Technology student at Macquarie University with hands-on experience in full-stack web development, Flutter mobile applications, applied AI and product development. I co-founded the Syllabus Sync ecosystem, selected for the Macquarie University Incubator, and have built projects across web, mobile, AI and campus navigation. As an Australian citizen graduating in November 2026, I am seeking a graduate software engineering role where I can contribute to product development, solve practical engineering problems and grow within an experienced technical team.

SKILLS

Languages: TypeScript, JavaScript, Python, Dart, Java, SQL

Frontend & Mobile: React, Next.js, Flutter, Tailwind CSS, Responsive Design, Accessibility, Deep Linking

Backend & Data: Node.js, Supabase, PostgreSQL, REST APIs, Authentication, Row-Level Security

AI/ML: PyTorch, Vercel AI SDK, Transfer Learning, Computer Vision, Model Evaluation, Grad-CAM, Gradio

Testing & DevOps: Git, GitHub, GitHub Actions, Vitest, Playwright, Flutter Testing, CI/CD, Vercel

EXPERIENCE

Software Intern | *Calumino*

July 2026 – Present

- Contribute to the development and maintenance of internal software applications, supporting debugging, feature implementation and testing.
- Work with Python-based data and machine-learning workflows, including data preparation, model testing and evaluation.
- Collaborate with engineers through code reviews, technical discussions and iterative development.

Software Developer & Co-Founder | *Syllabus Sync*

December 2025 – Present

Selected for the Macquarie University Incubator in May 2026

Website: syllabus-sync.app | GitHub: github.com/mrpouyaalavi/syllabus-sync

- Co-founded and co-developed the Syllabus Sync ecosystem, integrating a full-stack web platform, Flutter mobile navigation and AI-assisted study tools.
- Help drive frontend architecture, accessibility, technical planning and automated testing across user-facing features.
- Implemented destination-based deep linking between Syllabus Sync and MQ Navigation, creating a connected web-to-mobile campus-navigation flow.
- Participate in customer discovery, product validation, mentoring and founder development through the Macquarie University Incubator and EDUCATE accelerator.

Web Developer | *SBR Group*

October 2023 – December 2024

Promoted from a three-month internship to a paid development role.

- Improved the company's WordPress website across mobile responsiveness, usability and page performance, delivering a more consistent experience across desktop and mobile.
- Automated recurring internal coordination workflows using Monday.com, reducing manual follow-up and giving team members clearer visibility of task ownership and progress.
- Collaborated with stakeholders to translate business requirements into practical website and workflow improvements.

PROJECTS

Sylla – AI-Powered Study Assistant

July 2026 – Present

Next.js, React, TypeScript, Tailwind CSS, Vercel AI SDK, Supabase, Vite

Live: sylla.syllabus-sync.app | GitHub: github.com/mrpouyaalavi/Sylla

- Built an AI-powered study assistant with streaming responses, persistent conversation history and reusable study workflows using Next.js, TypeScript, Supabase and the Vercel AI SDK.
- Designed and implemented structured workflows for summaries, explanations, flashcards, quizzes and study planning.
- Designed Sylla to operate both independently and as an integrated assistant within the wider Syllabus Sync ecosystem.

MQ Navigation – Flutter Campus Navigation Companion

March 2026 – Present

Flutter, Dart, GoRouter, Deep Linking, GitHub Actions, Flutter Testing

GitHub: github.com/mrpouyaalavi/MQ_Navigation

- Built a Flutter campus navigation application supporting destination discovery, route previews, transport information and access to key university locations.
- Implemented destination-based deep linking between Syllabus Sync and the mobile app, enabling direct web-to-mobile navigation.
- Improved app reliability and usability through mobile-first interface design, accessibility-focused flows and automated Flutter testing.

CIFAR-10 Image Classification – PyTorch Benchmark

April 2026 – Present

Python, PyTorch, torchvision, NumPy, Gradio, Hugging Face Spaces, Grad-CAM

Demo: cifar10.pouyaalavi.dev | GitHub: github.com/mrpouyaalavi/CIFAR-10-Image-Classification

- Benchmarked a custom CNN, MobileNetV2 and ResNet-18 under controlled training and transfer-learning conditions.
- Achieved 87.48% test accuracy using ResNet-18 transfer learning.
- Added Grad-CAM interpretability, INT8 quantisation, CLI inference and a live Gradio deployment.

EDUCATION

Bachelor of Information Technology

July 2023 – November 2026

Macquarie University

Majors: Artificial Intelligence; Web and Mobile Application Development

- Developed practical experience across software engineering, full-stack development, mobile applications, databases, data structures, algorithms and applied AI.

Certificate IV in Information Technology (Programming)

July 2022 – July 2023

TAFE NSW

- Completed practical training in HTML, CSS, JavaScript, PHP, MySQL, responsive design and database-driven application development.

ADDITIONAL EXPERIENCE

Sales Co-worker | IKEA Australia

May 2025 – Present

- Resolve customer enquiries and coordinate across sales, logistics and warehouse teams in a high-volume retail environment.

Sales Assistant | Zara

December 2024 – May 2025

- Delivered customer service and supported product enquiries, transactions and stock operations in a high-volume retail environment.