

# Fareed Farooqi

[fareedfarooqi.dev@gmail.com](mailto:fareedfarooqi.dev@gmail.com)

[linkedin.com/in/fareed-farooqi-6519812a2](https://linkedin.com/in/fareed-farooqi-6519812a2)

[github.com/fareedfarooqi](https://github.com/fareedfarooqi)

[fareed.dev](https://fareed.dev)

## PROFILE

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- Penultimate-year Software Engineering (Honours) student at UNSW with a Distinction WAM, focused on building scalable, production-ready systems
- Proven experience delivering cloud-based, full-stack applications using AWS, microservices, CI/CD, and modern web frameworks, with real-world users and measurable impact
- Demonstrated leadership through founding and scaling high-impact student and education ventures, while mentoring engineers in agile development and advanced C++

## EDUCATION

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### Bachelor of Software Engineering (Honours)

January 2022 - Present

#### University of New South Wales

- Notable Awards: Optiver Software Engineering Prize (SENG3011), Coding Fest Visionary Project Idea Award (University of Sydney), Best Project Award in Computer Graphics (COMP3421)
- Grade: Distinction

## EXPERIENCE

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### Student AI Consultant

September 2025 – November 2025

#### TPG Telecom

- Delivered an AI-enabled learning solution for a 3,000+ employee corporate environment, focusing on capability development, knowledge sharing, and scalable workforce upskilling
- Conducted stakeholder engagement with senior capability and delivery leaders to analyse existing learning ecosystems, organisational constraints, and market offerings, informing a pragmatic, Microsoft-integrated solution
- Designed and presented a prototype and strategic recommendation to TPG mentors, receiving validation for alignment with business needs, governance constraints, and long-term maintainability

### Tutor & Mentor

January 2025 - Present

#### UNSW, School of Computer Science and Engineering

- Tutor and mentor SENG3011 (Software Engineering Workshop 3) students, emphasizing agile development, cloud microservices, and API systems, by facilitating hands-on workshops covering diverse project-specific technical needs, including DevOps practices, AWS deployment, and CI/CD pipelines
- Lead live coding tutorials, marking, and help sessions for COMP6771 (Advanced C++ Programming), providing in-depth support on complex programming problems and foundational concepts
- Liaise with course convenors and academic staff to prepare and schedule tutorials, collect student feedback, and ensure sessions meet course objectives

### Co-Founder

November 2023 - Present

#### Fission Education

- Co-founded and managed a comprehensive K-12 tutoring service, scaling the business to sustained profitability
- Developed and delivered tailored programs for HSC, NAPLAN, selective school admissions, and opportunity class preparation, consistently earning 5-star reviews
- Led a team of tutors and leveraged data-driven insights to optimise teaching performance and enhance student outcomes

## EXTRACURRICULAR ACTIVITIES

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### Software Engineer – CSE Subteam

September 2024 - Present

#### UNSW Rocketry

- Collaborated with interdisciplinary teams on rocket development projects, focusing on designing software for performance tracking, telemetry, and flight computer data transmission
- Programmed microcontrollers to support real-time telemetry and data collection, streamlining data acquisition and enabling more accurate flight performance analysis for ongoing rocket development and testing
- Modernised the UNSW Rocketry website using WordPress, achieving an estimated 25% improvement in load times and a 20% boost in user engagement, resulting in a more modern and efficient online presence

### Co-Founder & Executive

March 2023 - Present

#### UNSW Social Soccer Society

- Led the club's growth to over 1500 members, building a strong community and winning 3 Club of the Year awards at UNSW in 2024 for outstanding administration, collaboration, and event series
- Streamlined operations for a team of 35 staff by developing a custom productivity tool for event management and internal communications
- Organised major university soccer events, improving logistical efficiency and member engagement through enhanced communication strategies

## PROJECTS

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### Virtual Trading Platform

February 2024 - May 2024

#### Core Technologies: Next.js, AWS Lambda, AWS Amplify, Terraform, Python

- Introduced AI-driven analytics using OpenAI API to deliver dynamic trading insights, improving decision-making and user engagement through real-time data analysis and tailored financial indicators
- Built a gamified trading platform with microservices architecture, utilising AWS Lambda and Amplify to create a full-stack solution supporting real-time user interactions
- Reached 95% code coverage with unit, integration, and smoke tests, ensuring robust system functionality and reliability

### Staff Application

December 2023 - February 2024

#### Core Technologies: Python, FastAPI, SQLite, SQLAlchemy, Flutter

- Developed an OOP-based event management and attendance tracking application for a 35-person staff to manage events for a society of over 1,500 members, available on both the App Store and Google Play
- Implemented a robust database schema and secure endpoints to enable real-time data retrieval and ensure high system reliability
- Streamlined operations, achieving a twofold increase in efficiency through automation and allowing the team to focus on strategic planning and innovation

## TECHNICAL SKILLS

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Languages: Python, JavaScript, C, C++, Java, SQL (Postgres)

Web Technologies: HTML5, CSS3, HTTP/REST, JSON, AJAX, npm

Frameworks/Libraries: Flask, FastAPI, Node.js, React, Next.js, SQLAlchemy, SQLite, Supabase

Developer Tools: Git, GitHub Actions, Docker, Terraform, VS Code

Cloud & DevOps: AWS (EC2, Lambda, S3, Amplify), CI/CD Pipelines

Technologies: Object-Oriented Programming (OOP), API Development, Microservices, Cloud Deployment, Automation

## REFEREES

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Available upon request