

# Muhammad Hafizh Hasyim

[LinkedIn](#) | [hafizhasyim12@gmail.com](mailto:hafizhasyim12@gmail.com) | +61 405-112-125 | [GitHub](#) | [Website](#)

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## Skills

**Languages & Frameworks:** Go, Python, Java, TypeScript, JavaScript, Flask, FastAPI, React, Next.js

**Backend & Data:** REST API design, SQLAlchemy, Pandas, Postgres, MySQL, Firebase, Firestore

**Systems & Protocols:** TCP/IP, Kafka wire protocol, MQTT, concurrent systems, RBAC, authentication flows

**Cloud & Practices:** Google Cloud Platform (GCP), Cloud Run, Generative AI, LLM APIs, Agile, OOP, Systems Thinking, Unit Testing

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## Education

**Bachelor of Advanced Computing (Honours)** Australian National University **Graduating Jul 2026**

- Human-Centred and Creative Computing Specialisation | ANU Global Diversity Scholarship (\$75K, Jul 2021) | GPA: 5.75 / 7.0
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## Experience

**Consultant & Team Lead** ANU SIP Canberra, AU **Feb 2026 – Present**

- Leading a team of 4 student consultants engaged by ANU's International Strategy Division to develop evidence-based recruitment and diversification strategies amid shifting geopolitical and regulatory conditions.
- Synthesising primary survey data and secondary research into structured strategic recommendations spanning scholarship design, pathway programmes, and articulation partnerships.
- Managing client communications and deliverables with industry mentors from Scyne Advisory, preparing formal presentations for senior ANU leadership.

**Co-Founder & Tech Lead** Pookie Platform Canberra, AU **Jan 2026 – Present**

- Own technical direction and system architecture for an early-stage startup, leading end-to-end development across Next.js and Firebase and driving backend feature prioritisation with the Product Co-Founder.
- Mentor engineers and oversee delivery quality across sprint cycles, ensuring technical consistency.

**Software Engineer** Pookie Platform Canberra, AU **Feb 2025 – Jan 2026**

- Built MVP features across authentication, data models, and API integrations using FastAPI; implemented request validation and data persistence layers.

**Strategy & Product Intern** Telkomsel Jakarta, ID **Dec 2024 – Feb 2025**

- Analysed infrastructure performance data and presented findings to senior stakeholders, contributing to a 30% improvement in campaign performance and closing 6 defects in live features.

**Back End Engineer** Emergiq FireApp Canberra, AU **Feb 2024 – Nov 2024**

- Designed and implemented Python and Flask backend services including REST API endpoints and authentication flows, supporting a volunteer scheduling system serving 100 users.
  - Hardened application security by implementing RBAC across all endpoints, achieving 100% coverage and eliminating unauthorised access vectors.
  - Standardised data models to enforce schema consistency, reducing discrepancies and improving downstream query reliability.
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## Projects

**Build Your Own Kafka** CodeCrafters Go **Feb 2026**

- Implemented a Kafka broker from scratch in Go: TCP socket binding, binary frame parsing, and Kafka wire protocol encoding/decoding with Correlation IDs and API version negotiation.
- Engineered goroutine-based concurrent client handling and delivered DescribeTopicPartitions and ApiVersions APIs end-to-end, with ongoing extension toward Fetch and Produce.

**Build Your Own Claude Code** CodeCrafters TypeScript **Feb 2026**

- Built a fully functional AI coding agent in TypeScript: core agentic loop, schema-driven read/write/bash tool system, and direct LLM API communication with multi-turn execution.

**AR Scavenger Hunt** GDG ANU React / Firebase **Apr 2025**

- Adapted and deployed a full-stack AR scavenger hunt platform for GDG ANU, integrating react-three-arjs for real-time marker detection and Firestore for persistent scoring and live leaderboard.
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## Leadership & Activities

**Co-Lead** Google Developer Groups - ANU Canberra, AU **Jul 2024 – Present**

- Led event strategy and delivered technical workshops on Google Cloud and Generative AI, reaching 120+ attendees and doubling membership to 200 with a 4.8/5 satisfaction rating.