Juan Miguel Badayos

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Portfolio: https://badmiguel.com　　　　**LinkedIn**: https://linkedin.com/in/miguel-badayos

Profile

Results-driven Software Engineering student with hands-on experience developing scalable web and mobile systems in Go, Python, and JavaScript. Proven ability to design, test, deploy, and optimise applications across full-stack environments. Passionate about solving complex algorithmic problems.

Education

Charles Darwin University　　　　　　　　　　March 2023 – November 2026 (expected)
Bachelor of Software Engineering Honours

- Current GPA: 6.0 – Distinction
- Awards & Scholarships: Outstanding Academic Achievement, NEC Information Technology Scholarship, Vocus Communications Scholarship, CDU Equity Award, IT Code Fair: Academic Excellence Award
- Relevant Coursework: Data Structures & Algorithms, Operating Systems, Web Engineering, Distributed Systems, Software Architecture, Data Science, Software Testing & Automation

Technical Skills

Languages: Python, JavaScript/TypeScript, SQL, Go, PHP, Bash, C#
Framework & Tools: Django, .NET Core, React Native, Node.js, WebSocket, Nginx, Git, Linux
Testing & Performance: Unit Testing (*unittest*), Robot Framework, JMeter (load testing)
Concepts: RESTful API design, concurrent programming, database design, authentication (OAuth), software testing, cloud deployment (Linux VPS)

Experience

NEC IT Solutions Australia Pty Ltd　　　　　　　　　November 2023 – Present
EUC Engineer

- Troubleshoot and resolve OS, network, and application issues in a Windows environment
- Providing timely and effective status updates to customers.

KFC – Casuarina, NT　　　　　　　　　　　　　　June 2022 – July 2024
Food Service Team Member

- Followed strict quality and safety standards and trained new staff.
- Preparing and cooking the food following the proper standard.

Projects

Cozy Park – Multiplayer Real-Time Web Game

- Engineered a server-authoritative Go WebSocket backend to coordinate real-time game state and minimise client desynchronisation.
- Designed a concurrency model to improve session stability and reduce perceived latency for simultaneous players.
- Deployed and maintained the services on a Linux VPS with Nginx reverse proxy.

Thesys – Thesis Management Web App

- Built a role-based access control system using Django to automate submission, review, and approval workflows for students and supervisors.

EchoLingo – Mobile App for Tiwi Language Learning

- Designed a React Native application integrated with Firebase for real-time teacher-student data synchronisation, preserving Tiwi language resources digitally