

DAVID BOLIS

Software Engineer | Enterprise AI, Solution Design & Technical Consulting

Sydney, NSW | 0429 326 795 | davidmaged1@hotmail.com | MasteringProgramming (YouTube) | TapAway (Wix Marketplace)

PROFESSIONAL SUMMARY

Software engineer and technical consultant with 7+ years of experience delivering production software across Australian government, banking, healthcare research, telecommunications and client-facing digital projects. Experienced in owning solutions from stakeholder discovery and requirements mapping through architecture, implementation, deployment and support. Strong background in Python, enterprise integrations, automation, cloud infrastructure and secure systems, with hands-on experience integrating AI capabilities into regulated workflows. Comfortable translating technical trade-offs for non-technical stakeholders, teaching complex concepts, and moving quickly across unfamiliar technologies.

CORE SKILLS

AI & Automation

Enterprise AI integrations, workflow automation, Power Automate, API integration, AI-assisted content generation

Architecture & Enterprise

AWS, Terraform, ServiceNow, Oracle-based applications, REST APIs, OpenID, secure systems

Languages & Development

Python, C#, JavaScript, React.js, Swift, Go, Java, Perl, Unity

Customer & Communication

Stakeholder discovery, requirements translation, solution design, technical consulting, teaching, mentoring, production support

PROFESSIONAL EXPERIENCE

Software Engineer | Australian Prudential Regulation Authority (APRA)

Feb 2026 - Present

- Own enterprise digital solutions end-to-end, partnering directly with stakeholders to understand business problems, map requirements, select an implementation approach, build the solution and support it after release.
- Design, develop and maintain solutions across Power Apps, Power Automate, ServiceNow, Oracle-based applications, custom applications and websites in a regulated government environment.
- Build workflow automation and system integrations that replace manual processes and connect business data, internal systems and user actions.
- Develop AI integrations for practical business workflows while operating within APRA governance, security and risk requirements.
- Deliver solutions for internal teams and public-facing stakeholders, balancing usability, maintainability and regulatory controls.

Founder & Technical Consultant | TapAway

Concurrent | Client-facing consulting

- Delivered 140+ Wix Marketplace client projects spanning web applications, custom development, API integrations, automation and digital solution delivery, with 36 marketplace reviews recorded on the profile.
- Worked directly with customers to uncover requirements, explain technical options and trade-offs, scope solutions, implement integrations and support delivered systems.
- Built external REST/SOAP integrations and custom workflows for client use cases, translating business needs into practical software solutions.

Casual Academic | University of Technology Sydney (UTS)

Feb 2023 - Present | After-hours

- Teach software and technology subjects, facilitate practical classes, assess technical work and mentor students through software-engineering problem solving.
- Prepare and explain complex technical material for audiences with different levels of experience, adapting communication to help students move from concepts to implementation.

Murex Systems Engineer | Commonwealth Bank of Australia (CBA)

Feb 2024 - Feb 2026

- Developed, maintained and enhanced Python, C# and Perl automation supporting business-critical Murex finance and trading processes.
- Translated finance and trading requirements into reliable software workflows and worked closely with Murex and trading teams to investigate issues and deliver requested capabilities.
- Deployed and supported code through GitHub and AWS-based environments in a highly regulated banking ecosystem.

Full Stack Web Engineer | Commonwealth Bank of Australia (CBA)

May 2023 - Feb 2024

- Built full-stack services, REST APIs and customer-facing web applications using React.js and C# within CBA's home-buying ecosystem.
- Implemented authentication and account-access functionality using OpenID and worked across front-end, backend and integration layers in a large production environment.

iOS Mobile Engineer | Commonwealth Bank of Australia (CBA)

Feb 2023 - May 2023

- Developed Swift functionality for the Commonwealth Bank mobile application and worked with Adobe AEM, Adobe Asset Manager and TeamCity within the mobile delivery toolchain.

Security Software Engineer | Commonwealth Bank of Australia (CBA)

Jun 2022 - Feb 2023

- Developed and reviewed software with security as a primary design constraint; investigated application vulnerabilities and authentication approaches including OpenID.
- Wrote Terraform infrastructure code to provision AWS buckets with security controls at scale, building hands-on cloud infrastructure and policy-driven configuration experience.

Research Assistant / Junior Developer | Neuroscience Research Australia (NeuRA)

May 2020 - Jun 2022

- Served as the sole developer on a clinician-facing iPad application for proprioception assessment, translating clinical and research requirements into working software.
- Built a multidimensional driving assessment in Unity and C# for clinical research and communicated progress with multidisciplinary stakeholders throughout iterative development.

Junior Software Engineer | Taggle Systems

Jul 2019 - Feb 2020

- Developed and submitted an iOS application using NFC to scan water meters and provide consumption analytics to customers, applying MVVM architecture.
- Built Python internal tools, worked with NB-IoT technologies and analysed operational datasets used to evaluate project performance; progressed from internship to Junior Software Engineer.

EDUCATION

Bachelor of Software Engineering | University of Technology Sydney (UTS), 2018 - 2022

ADDITIONAL ENGINEERING EXPERIENCE

Engineering Without Borders Humanitarian Engineering Summit | Cambodia, 2019

- Selected by UTS for a two-week humanitarian engineering program and nominated for New Colombo Plan scholarship support; used human-centred design with local communities to develop a clean-energy concept aimed at improving solar energy capture by 35%.