SIMON MACKINNON

Senior Cloud Engineer | AWS | Terraform | Python | Linux

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💡 Summary

Senior Cloud & Infrastructure Engineer with 10+ years' experience designing and delivering enterprise-scale AWS platforms for organisations with thousands of workloads**.** Passionate about creating high-performance engineering cultures, driving cloud adoption at scale, and mentoring teams to deliver secure, automated, and cost-optimised solutions that accelerate delivery velocity and reduce operational risk for enterprise-scale platforms**.**

🛠 Skills

- **Cloud & Infrastructure:** AWS (multi-account, Landing Zones, Cloud Networking), Azure, Terraform, CloudFormation
- **Automation & DevOps:** CI/CD (Jenkins, GitHub Actions), Configuration Management (Puppet), Infrastructure Pipelines
- **Programming:** Python, Node.js, Bash, Lambda and event-driven systems — automation tooling, governance scripts, compliance automation
- **Architecture & Design:** Solution Architecture, Cloud-Native Architecture, Cloud Governance, Cost Optimisation, Multi-account Design
- **Leadership & Collaboration:** Mentoring, Stakeholder Engagement, Community Building, Change Leadership

💼 Experience

Senior Cloud Engineer – AWS SME – National Australia Bank
Jul 2023 – Present
- Designed and deployed scalable, multi-account AWS infrastructure-as-code frameworks, enabling rapid provisioning for **100+ business units** and **thousands of workloads** with improved reliability and security posture.
- Automated key operational workflows in Python and Jenkins, reducing manual maintenance effort by over 50%
- Defined and championed cloud governance and architectural best practices, enabling secure, compliant, and auditable infrastructure growth across the organisation.

Key Achievements:
- **Engineered and delivered a bulk Terraform Plan & Apply platform** using open-source tooling (Terraform, Jenkins EC2 plugin, Bash), enabling consistent infrastructure changes to be deployed across **100+ AWS accounts in under one hour** — a process that previously took days.
- **Designed and led the engineering of NAB's AWS RDS Compliance Manager** — a cloud-native, event-driven solution that enforces centralised, database governance. This platform now provides consistent compliance controls across **3000+ RDS instances**.

Cloud Engineer – National Australia Bank
Feb 2019 – Jul 2023

- Delivered core AWS landing zone architecture, accelerating landing zone provision time by **40%** and improving compliance posture.

- Built automated compliance and reporting pipelines, cutting regulatory reporting time from weeks to hours.
- Led the AWS Community of Practice, organising and presenting at NAB events for hundreds of cloud engineers.
- Tutored in LearnToCode@NAB – Mentored dozens of new engineers through NAB's LearnToCode program, teaching modern software practices and cloud fundamentals

Software Developer – MLC Life Insurance
Jan 2016 – Jan 2019

- Full-stack **jQuery**, **.NET** and **SQL Server** development.
- Built CI/CD pipelines (**Jenkins**), config-as-code (**Puppet**).
- Co-founded developer community of practice.

Earlier roles

Software Engineer – Redflex Traffic Systems – Nov 2013 – Oct 2015
- Developed radar and traffic camera systems in **C++** and **.NET**.

Software & Electronics Engineer – Ingeneus Pty Ltd – Jan 2012 – Oct 2013
- Developed medical device firmware / **iOS** apps in **Python, C, C++, Objective-C**.

Software Developer Intern – Flanders' Mechatronics Centre (Belgium) – Jul 2009 – Nov 2009
- Developed integrations between COTS and open-source control software.

🎓 Education

Double Degree – Swinburne University of Technology | 2006 – 2011
- **Bachelor of Engineering (Hons) – Robotics & Mechatronics**
- **Bachelor of Science – Computer Science & Software Engineering**

🤝 Volunteering and 🌏 Community Involvement

- Volunteer Tutor – Kensington Neighbourhood House (2015 – 2016)
  Tutored over 30 students in Years 7–12, supporting skill development and confidence.
- { Dev : CoP } – Tech community group with lean-coffee style meetups. Founded, organised, promoted and ran meetups with up to 60 IT Professionals.
- Melbourne AWS Programming and Tools Meetup (Organiser) – Focused on AWS serverless, analytics, and IoT. Promoted and co-organised in-person meetups with up to 200 cloud enthusiasts.

📜 Certifications

Current
- Terraform Associate (HashiCorp, 2024)

In-Progress
- AWS DevOps Engineer – Professional (expected 2025)
- AWS CloudOps Engineer – Associate (renewal expected 2025)

Previous
- AWS SysOps Administrator – Associate (AWS, 2019)
- AWS Developer Associate (AWS, 2019)
- AWS Solution Architect Associate (AWS, 2019)
- Azure Fundamentals (Microsoft, 2021)

References available on request