

Lachlan Michael Brown

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QA automation engineer with four years at Transport for NSW building framework-based test automation across API, UI and mobile layers. Integrated the AWS SDK into the team's framework with a dispatch layer that cut regression runtime over 100x and became the base of an internal Codeless Automation Framework. Strong in TypeScript, Java, Selenium, Playwright and Cypress.

Work Experience

Independent Game Developer

September 2025 – Present

- Sole developer of a multiplayer 3D puzzle-platformer in Unity and C#, around 12 levels, with all 3D assets self-authored in Blender
- Designed and built the netcode and client authority model, the hardest engineering problem in the project
- Wrote authoring tooling for every entity type in the game, structured so an AI agent can generate and iterate new variants from an existing one

QA Automation Engineer, Transport for NSW

October 2021 – July 2025

- Automation engineer on 4 of the team's 6 delivery streams, owning automation strategy and execution across API, UI and mobile layers for a suite of thousands of test cases
- Integrated the AWS SDK (Lambda, DynamoDB, Cognito, S3) into the framework with a business-rule dispatch layer, cutting regression runtime over 100x and reaching service behaviour the UI could not exercise
- Built an Opal fare-engine simulator covering base fare, trip rules, public holidays and station access fees, running about 100,000 scenarios an hour; adopted as the branch's standard fare check
- Wrapped the AWS access layer in a no-code suite so manual testers could drive AWS services and mock API and React state, later adopted as the foundation of an internal Codeless Automation Framework
- Authored data-parity suites for system migrations, running identical inputs through legacy and replacement systems to catch behavioural drift before cutover
- Designed CI/CD pipelines in Jenkins and Bitbucket Pipelines covering compile, build, export and test for React Native apps and backend integrations, tracking defects through JIRA

Automation Engineer, Vision Packaging

January 2015 – August 2018

- Designed a product classification system giving every SKU a structured, comparable description, unlocking pricing analysis and sales automation

Earlier work, concurrent with UTS degree

2014 – 2021

- **Website tester**, May – Oct 2021 — tested public-facing sites for security vulnerabilities
- **System administration** (self-employed), 2015 – Nov 2019 — hardware and systems maintenance for mPort 3D Body Mapping and Strong Property Real Estate
- **Electronics component sales** — Australian Scientific (owner, 2014 – 2020), Jaycar (2019)

Skills

Languages · TypeScript / JavaScript, Java (3+ yrs professional) · Python (OO-proficient), C#, C++, Swift, PHP (project-level)

Testing · Selenium WebDriver · Playwright · Cypress · Cucumber (BDD) · JUnit/TestNG · API automation · Test framework architecture · Mock/stub layers for React and REST

Cloud & CI/CD · AWS (Lambda, DynamoDB, Cognito, S3, Serverless) · Azure · Docker · Jenkins · Bitbucket Pipelines · AWS triggers · Git

Frontend, Mobile & Data · React (production) · React Native (iOS + Android) · MySQL · PostgreSQL · DynamoDB · Cassandra

Other · JIRA · Agile/Scrum · Unix/Linux, Windows, macOS · CCNA Routing & Switching

Education

- **B.Sc. Information Technology** — University of Technology Sydney, 2015 – 2021