

Ben Marrett

Software Engineer | Quality & Automation

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Professional Summary

Software engineer with experience building and operating SaaS systems, spanning APIs, web applications, automation, and CI/CD pipelines, with a strong quality and reliability mindset. Brings hands-on experience designing and shipping functional, integration, and performance testing across complex platforms. Known for fixing issues at source, designing and improving maintainable systems, and supporting teams to deliver with confidence.

Core Competencies

Programming: JavaScript, TypeScript, Node.js, SQL, Python, HTML & CSS, React, C#/.NET(developing)

Cloud & Platforms: Azure DevOps, Azure Logic Apps, Azure Functions, Postman, Git, GitHub

CI/CD & DevOps: CI/CD Pipelines, Infrastructure as Code principles, Feature flagging, Partial deploys, Monitoring & observability

Databases: SQL Server, PostgreSQL, Cosmos DB, MongoDB

Automation & Performance: Playwright, Jest, Testing Library, k6, Bash, PowerShell

API Design: REST API design, Contract testing, Integration patterns, Authentication & authorization

QA & Delivery: Test Planning, Test Case Design, UAT, Functional & Regression Testing, Agile, Defect Management, Root Cause Analysis

Professional Experience

Spark NZ - Software Engineer, Quality & Automation, Fully remote, NZ

OCT 2023 - DEC 2024

Backend, API & Performance Work

- Led k6 performance testing for an AI call-summarisation service, analysing production behaviour and validating a zero-incident rollout for 500+ daily call centre users
- Designed and executed comprehensive REST API tests using Postman, identifying integration defects early and validating contract behaviour across multiple services
- Performed data validation and investigation using SQL and NoSQL queries to trace defects through backend systems and data pipelines

Systems Reliability & Defect Resolution

- Diagnosed and fixed defects directly in application code (Python) and Azure Logic Apps, working across services and workflows rather than only reporting issues
- Supported investigation and resolution of production issues, contributing to root-cause analysis and post-release stability improvements.
- Identified edge cases early in development, reducing downstream failures and rework for engineering teams
- Contributed to a large-scale ERP automation initiative (300+ automated tests), adding new coverage and stabilising frameworks to reduce repeated manual regression effort

Automation Engineering

- Built production-grade automation frameworks using Playwright, supporting 50+ UI/E2E test cases across multiple web applications
- Designed and implemented reusable helper functions and abstraction layers to simplify complex workflows and improve test maintainability across systems
- Integrated automated test suites into Azure DevOps CI/CD pipelines, scripting pipeline steps and optimising execution reliability and run time

Collaboration & Delivery

- Worked across multiple agile squads, collaborating closely with engineers, product owners, and stakeholders to refine acceptance criteria and manage delivery risk
- Participated in sprint planning, stand-ups, and retrospectives, providing clear technical input on testability, reliability, and release readiness
- Shared tooling improvements, quality metrics, and automation patterns to improve consistency across teams

- Owned code from development through deployment, monitoring, and iteration, applying CI/CD and production feedback loops

Greenback Ltd. - Software Developer & Tester, Fully remote, NZ

AUG 2022 – DEC 2022

- Developed and shipped full-stack features using React (frontend) and Django (backend), contributing directly to user-facing product functionality
- Implemented React components from Figma designs, translating UX requirements into maintainable frontend code
- Built responsive, mobile-first UI components, ensuring usability across common mobile and tablet breakpoints
- Integrated frontend features with backend API endpoints, handling data flow, validation, and error states
- Tested features across desktop and mobile viewports, identifying layout, interaction, and edge-case issues early
- Collaborated within Agile sprints, using GitLab for version control, code reviews, and issue tracking

Datacom / Immigration NZ - Client Services Representative, Fully remote, NZ

NOV 2022 - SEP 2023

- Handled 50–70 cases daily via phone and email, maintaining 95%+ customer satisfaction.
- Escalated 5–10 technical issues per day to senior staff or engineering teams, often identifying recurring patterns or defects.
- Managed sensitive data in a high-pressure environment requiring accuracy and clear communication.

Selected Engineering Projects

Independent software projects spanning full-stack web applications, APIs, and developer tooling, built and deployed end-to-end.

Kaipara Webworks - Freelance Web Development & Backend Engineering

JAN 2025 - PRESENT

Full-Stack Application Development

- Designed and built web applications using React and Next.js, with emphasis on maintainable, scalable, and responsive architecture across desktop and mobile devices.
- Implemented custom API integrations using REST principles, handling complex request/response flows and error states

Backend & Database Design

- Built production-ready backend systems using Supabase, implementing CRUD operations, relational data models, and real-time subscriptions
- Designed secure API interactions with validation layers, authentication patterns, and structured error handling to support frontend workflows

Serverless Functions & Third-Party Integrations

- Built custom serverless Edge Functions in TypeScript to handle form submissions, validation logic, and external service integrations
- Integrated third-party APIs (Resend for email notifications), designing clean abstraction layers for external dependencies

Quality & Reliability Practices

- Applied automated and manual testing practices, including unit tests for critical business logic
- Implemented error logging and monitoring to surface issues early and reduce production defects

Education

Dev Academy Aotearoa - Software Development & Testing (Level 6)

DEC 2021 - MAY 2022

- Built and tested full-stack applications using Node.js, React, SQL, and modern testing frameworks.
- Practised unit testing, API testing, and end-to-end testing using test-driven development principles.
- Worked in Agile teams, rotating through roles including developer, tester, and product owner.
- Developed a strong foundation in system design, testing, and collaborative software delivery.

ADDITIONAL INFORMATION

- NZ Resident
- Available immediately
- Open to remote, hybrid, or on-site roles
- Full NZ driver licence

