Oliver Mainey

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# Summary

I'm a hands-on engineer that's always trying to understand the bigger picture. "Show me the incentive, and I'll show you the outcome." - Charlie Munger. I'm always looking at how to make the product better for the customer, an experience 10x better will see 1000x more usage so the less latency, the better interactivity, simpler application that does what the customer needs will always win. My greatest strengths are mindsets aligning with these goals; data oriented design, testing, deployment and developer tooling - because a more effective application and developer the greater value proposition to the business. There's a long history of failed IT projects because of code quantity over code quality, the AI future on the horizon seems to want to re-tread that same path and I'd encourage businesses to think about quality more.

# Core Skills

**Portfolio -** [**http** **s://github.com/Ober3550**](https://github.com/Ober3550)

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| --- | --- |
| **Category** | **Technologies** |
| Languages | C, C++ (SIMD), Rust, Go, Java, C#, TypeScript/JavaScript, Python, SQL, Lua, Groovy, MATLAB, F#, R, Bash, HTML/CSS, XSLT |
| Backend / Services | Dotnet, Node.js, Bun, REST, gRPC, JMS, ActiveMQ |
| Frameworks & UI | Angular, React Native, ImGui, SDL2, SFML, P5.js, Google Web Toolkit |
| Cloud & Infra | AWS, GCP, Azure DevOps, Docker, Kubernetes, Helm, Terraform, Nginx, Git Pipelines, Jenkins |
| Testing & Quality | Jest, JUnit, Cucumber, Selenium, Chromedriver, Mountebank, Imposter.sh |
| Data & Monitoring | PostgreSQL, MySQL, SQLite, Oracle, BigQuery, Azure App Insights, Google Analytics, Grafana |
| Tooling & Productivity | GitHub, Bitbucket, Jira, Confluence, Docmosis, LibreOfice, GPT-5, Agentic AI, MCP |
| Strength Themes | Data oriented design, performance profiling, multi-scale testing, developer productivity oriented and robust design |

# Experience

## Domino’s – Software Engineer

*April 2023 – Present*

**Domain:** Global Delivery and Pickup Search - Aus/NZ, Japan, Singapore, Malaysia, Taiwan, Germany, France, Netherlands and Berlin

Improved the Dominos Maps support (React Native, Jest, Chromedriver) modernising the UI. Extended various backend microservices (C#/Dotnet, Swagger)

Solo developed package management workflow for Imposter.sh deinitions.

Platform Foundation DevOps containerising Dotnet and Node services, standardised Azure DevOps pipelines, and reined Kubernetes deployment patterns and error reporting using Helm.

**Key Technologies:** Dotnet, C#, TypeScript, Node.js, React Native, Azure DevOps, Docker, Kubernetes, Bash, Python, Imposter.sh

## CitrusAd – Software Engineer

*March 2022 – April 2023*

**Platform Scale:** 500M ad requests/day serving Coles, Woolworths, Target and 100+ others satisfying the ad campaigns of 3.5k brands

Contributed to Ad Relevancy services (Go, Postgres, BigQuery) focusing on latency optimization & ranking correctness.

Implemented Seller ID feature (Go, Java BigQuery) for allowing multiple sellers to advertise the same product and receive correct impression and click-through reporting

Solo released across all retailers with a live system and dealing with performance issues of re- indexing 20 billion ad generation events across 2 weeks of 9am-12am

Solo developed Imposter (Node, Docker, Kubernetes, Terraform) allowing monitoring of deployed service versions and redirecting platform trafic to local application instances for debugging

**Key Technologies:** Go, Java, Node.js, PostgreSQL, BigQuery, Docker, Kubernetes, Terraform

## GBST – Graduate Software Engineer

*Jan 2021 – March 2022*

**Domain:** GBST provides asset management software for NAB, Westpack, UniSuper and more

Enhanced Retail Cash Accounts module (Java, GWT, Postgres) extending transactional capabilities outside the private banking and pension sector.

Supported CHESS to CSP integration with message-driven architecture (ActiveMQ, JMS).

Solo developed a TLE to Groovy transpiler (5k lines, Node) aswell as the groovy testing client (5k lines, Java, Spring, JUnit4) to modernize legacy scripting converting 2 million lines of code.

**Key Technologies:** Java, GWT, Spring, ActiveMQ/JMS, Postgres, Node, Groovy, XSLT

# Education

**Queensland University of Technology**

Bachelor of Information Technology (Distinction) Majors: Computer Science & Simulation Science

Focus: Physical Simulation using High Performance Computing (C++) and Data Visualization (Matlab, MatPlotLib, OpenGL)

*Last updated: 2025-08-21*