

# JACK W. FINLAY

Melbourne, VIC | [jack@jackfinlay.com](mailto:jack@jackfinlay.com) | [jackfinlay.com](http://jackfinlay.com)

Experienced software developer specialised in engineering and scaling of platforms through .NET and Azure Cloud. Always seeking to learn new skills. Able to rapidly pick up and excel in new technology stacks where required.

## Skills

**Programming Languages:** C#, SQL, TypeScript, JavaScript, HTML, CSS

**Frameworks:** .NET 6, .NET Core, .NET Framework, ASP.NET Core, Entity Framework, xUnit, React.js

**Cloud:** Microsoft Azure, App Services, Functions, Service Bus, Storage, Queues, Microsoft/Azure SQL Server

**Tools and Practices:** Git, GitHub, GitHub Actions, Docker, CI/CD, Scrum, Kanban

**Soft Skills:** Leadership, Mentoring, Communication, Teamwork, Initiative, Eliciting feedback

## Experience

**Senior Software Developer** Homely Group, Melbourne

*Jun 2021 – Present*

- Architected and developed greenfield products for the real estate industry using .NET 6 and Azure cloud
- Conceptualised and delivered initiative to implement passwordless authentication and authorisation system to reduce application login friction
- Mentored team members in increasing code quality through code review and pair-programming sessions, greatly lowering the rework on pull requests
- Spearheaded the implementation of Docker Compose solutions, enabling rapid onboarding for new team members by providing local, replicable environments, reducing onboarding time to minutes.
- Formulated, lead, and executed initiative to move the organisation to using a source-controlled database migration system in order to enable tested and peer-reviewed Continuous Delivery of database changes
- Authored CI/CD pipelines, including automated testing, using GitHub Actions, Docker, and Azure Container Registry, leading to an average deployment time of two minutes
- Implemented alerts system to drive daily-digest emails for property listings, leading to an increase in daily active users and an increase in the email click-through rate

**Senior Software Developer** Tally Group, Melbourne

*Apr 2020 – Jun 2021*

- Architected and built solution in C# and .NET Core for registration and send of webhooks from an event-driven system using Azure Service Bus, Blob and Table storage, and SQL Server to enable third-party integrations to receive notifications on billing processing status
- Designed and implemented system integration for ETL of battery cycle data using Azure Durable Functions to enable end-users and billing systems to track their electricity import and export from the electrical grid
- Developed payment gateway integrations, allowing for SaaS billing systems to take credit card and direct debit payments for utilities consumers to pay their bills on schedule

**Software Engineer** Plexure Group, Auckland

*Jan 2019 – Apr 2020*

- Produced and maintained systems used by over 150 million registered users through .NET Core and .NET Framework solutions for personalised offers and loyalty programs
- Conducted platform optimisation projects, cutting the volume of Notification Hub API calls by more than 90%
- Re-engineered platform security to implement JWT authentication and authorisation for systems used by millions of users per day, allowing for improved security for both the platform and users

**Software Developer** AlphaCert Labs, Auckland

*Mar 2018 – Jan 2019*

**Analyst Programmer** Gentrack, Auckland

*Aug 2016 – Mar 2018*

**Technical Consultant** Business Mechanix, Auckland

*Apr 2015 – Aug 2016*

**Intern Developer** University of Auckland IT Services, Auckland

*Dec 2014 – Feb 2015*

## Projects

**EscapeRoute** .NET library to clean and escape text in JSON files and snippets; 20k+ Downloads

[GitHub](#) | [NuGet](#)

**Jsonize** .NET library to convert HTML webpages into JSON format; 25k+ Downloads

[GitHub](#) | [NuGet](#)

## Education

**Bachelor of Computer and Information Science** - Software Development Major  
Auckland University of Technology, Auckland, New Zealand

*2013 – 2016*