

# Daniel Coats

Senior Software Engineer

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## Experience

**Senior Software Engineer** | Microsoft | Redmond, WA | February 2019–Present

Working on Substrate, the data and compute platform for Outlook and other M365 products:

- Architected and developed new REST API service backed by NoSQL data store optimized for storing and streaming time series data, achieving significant reduction in transaction costs.
- Led migration of five ASP.NET microservices to .NET Core to improve performance and developer experience, and reduce costs.
- Collaborated with four partner teams to bring their data into our compliant cloud platform and added functionality based on their requirements to unlock new end-user features across M365.

In the OneNote team, built new features for note-taking in Outlook on the web using React/Redux and Typescript, and contributed new features and accessibility improvements in the Windows 10 UWP Sticky Notes application.

**Digital Intern (Software Developer)** | AA Insurance | Auckland, New Zealand | April 2018–October 2018

- Evaluated the performance of different classification algorithms for predicting customer intent based on labeled customer support conversations using Python and scikit-learn.
- Deployed the best performing model to AWS S3, queryable through a Lambda serverless API.
- Developed a React JS/Redux TypeScript chat application as a front-end for the model.
- Piloted the application internally and provided recommendations based on user feedback.

**Software Engineer Intern** | Microsoft | Redmond, WA | November–February 2017 and 2018

- Designed and implemented D3.js data visualization in an Angular web app to enable Microsoft Inside Sales to understand the organizational structure of complex enterprise customers.
- Worked with the Mixer team to build a pipeline for aggregating offline data, surfaced to streamers in realtime via an Angular web application.

**Co-founder and Developer** | CareerWise | [careerwise.school](http://careerwise.school) | New Zealand | 2014–2019

CareerWise is a SaaS platform for careers advisors and institutions to connect with their local community about post-secondary opportunities.

- Grew to 22 schools nationwide with \$10k annual run rate (acquired by a local company in 2019).
- Responsible for all technical aspects: front-end (HTML/CSS and jQuery) and back-end (PHP and MySQL), devops, and server admin (Linux VPS).

**Web Developer** | Freelance | [danielcoats.nz/work](http://danielcoats.nz/work) | 2011–2017

## Education

**Bachelor of Science (First Class Honors)** | Computer Science and Statistics | University of Auckland

- GPA of 8.875 / 9.0
- Senior Scholar award for top grades in undergraduate degree program
- Received A+ grade for thesis “A Chatbot for Customer Service in the Insurance Industry”

## Skills

**Languages:** C#, Python, Typescript, JavaScript, SQL, HTML/CSS, PHP

**Back-end:** ASP.NET, gRPC, Node.js, microservices

**Front-end:** React, Redux, Angular, Ember