James McCann

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I'm a full-stack web and mobile developer with four years experience working professionally in Ruby, JS/Node/React, Java, Objective-C, C, and SQL.

I have three years experience working in agency development, primarily in Ruby (Rails) and JS. In my most recent position at Consumer New Zealand I've been the technical lead on two web projects and been responsible for incrementally modernising old Ruby on Rails installations and building interactive front-ends with React. In the year I spent working at ikeGPS I've been responsible for Android and iOS applications for their in-house designed bluetooth laser measurement devices, comfortable working across the stack from low level measurement algorithms and Bluetooth LE services to high level UI design and implementation.

I consider myself to be self-motivated, proactive, and quick learning. I enjoy working with teams of people who share a passion for the software they are building. I'm also a big believer in design language and software patterns. I love learning new ways of building well architected, scalable, and maintainable software.

EXPERIENCE

Consumer New Zealand April 2016 - Present
Ruby/Rails, Node, React, API and database design. Responsible for the redesign and development of the Powerswitch application which allows consumers from New Zealand to compare power prices for their household / usage profile and switch to cheaper providers. Developed backend services and a Node/React frontend to separate concerns between data loading and profile generation.

ikeGPS Ltd. May 2015 - April 2016
Android, iOS, JS, Node, C. Primarily responsible for the 'Spike' and 'Smart Measure Pro' mobile applications that used Bluetooth LE to communicate with custom laser measurement devices to take photos and measure surfaces. Applied MVP design patterns on Android and iOS to separate UI from business logic and ensure our apps could be efficiently tested. Oversaw deployment of the Smart Measure Pro application to be sold alongside 25k laser units in the US market.

3months.com 2012 - May 2015 (2 years, 6 months)
Agile, Ruby/Rails, iOS, Android, JS/React/Node, SQL. Worked on a wide range of small to large Rails applications, developed native iOS and Android applications and worked on custom BLE hardware/embedded devices.

EDUCATION

Victoria University of Wellington 2010 - 2014
Bachelor of Engineering (Software), First class Honours, Dean's List 2010 - 2014
Hons Thesis: *Priority Based Traffic Control* - a design for an adaptive traffic control system using "connected" vehicles and traffic lights, with Dr. Paul Teal.

OTHER

Published and presented at 2014 ITS Asia Pacific Forum
Paper: Reducing the Rising Costs of Congestion using Priority Adaptive Traffic Control

Interests Travel, open source, cycling, tramping and camping, sailing, chess, urban design & cities, architecture.