

# Nicholas Hemsley

Computer Scientist, Data Scientist

## Skillset

Ruby

Postgres

Flutter, Javascript, Ruby  
On Rails, Elastic Search,  
PostGIS, Mysql

eBPF, Kubernetes, Docker,  
Google API, PHP

cPanel, Linux Administration

Email, DNS, Stripe, JQuery, C#,  
ASP.net, Amazon S3, Amazon, HTML,  
Ember JS, Wordpress, Timeseries Data,  
Ethereum, Bitcoin, Google Drive,  
Geolocation, Google Places, Devops,  
Lando, Vue JS, Laravel

## Experience

### Itomic Web Design & App Development

01 August 2019 - 01 January  
2020

- Maintaining a Vuejs & Laravel web app, with a Mysql database. Elastic Search functionality.
- Giving technical advice on Flutter Android & IOS App, and Laravel API backend. (API design, code quality, performance).
- API Integration
  - Google Places
  - Google Accounts Reseller
  - cPanel/WHM

### Freo Guitar Tuition

01 February 2018

I augmented their customer invoice tracking system to send out emails to clients when invoices are due.

- Encapsulate the business logic for communicating with customers regarding invoicing.
- Airtable integration with ruby application to send out invoices when due.

I am currently working on a booking system for Fremantle Guitar, which integrates with their unique needs (guardians, dependants, term based subscriptions).

- Heirarchical user system with dependancies between customers. Based on Devise.
- Google Drive Integration for uploading training videos (managing user access)

## Cryptocurrency Exchange Arbitrage

01 January 2018 - 01 April 2018

Analyze opportunities presented by exchange rate differences between online cryptocurrency exchanges. Finding round-trip percentage gains by buying and selling on various exchanges.

- Ruby On Rails
- Javascript charting front end
- Data Aggregatin from multiple exchanges (using coingecko/cryptocurrency gem)

## Media On Mars

01 January 2017 - 01 June 2018

Setting up and troubleshooting up Website Hosting

- DNS
- Email
- Hosting providers

Websites

- Integrating photoshop designs into wordpress sites
- Front end javascript functionality
- Bespoke wordpress plugin development

## ABC Wall Removers

01 January 2016 - 01 April 2016

I developed a quoting website for ABC Wall Removers to create estimates for jobs. This was generally accessed via an web app & on iPad. Once the estimate was created, the client could then send the estimate details across to his invoice2go invoicing app, which takes care of generating a PDF invoice for clients. This was developed using emberjs, a rails backend which served json, and the bootstrap framework for the design.

## Integrated Natural Systems

01 August 2015

Created a static website hosted on amazon s3. The client wanted a clean, minimal look for their website to complement with the images & gallery featuring photos of nature.

## Phone Control Australia

01 February 2007 - 01 June 2009

Web Programming – ASP.NET, C#, SQL Database. I worked on an Single page web app utilizing javascript charts for reporting on phone system usage in organisations. This was before SPA apps were a thing. Internet Explorer, memory leaks, css hacks. Interesting project, I learnt alot about javascript and its dynamic nature (wrt. functions & binding) through this project.

## House Of Snowball

01 February 2006 - 01 June  
2006

I developed an ecommerce shop for [houseofsnoball.com](http://houseofsnoball.com). This was created using rails, and integrated with Stripe for the payment processing. Created using haml, sass & javascript. It is a fairly traditional Rails application.

## Itomic Web Design & App Development

01 January 2003 - 01 June  
2005

Full stack web developer with Itomic. Mostly with their in-house CMS. Many and varied roles as came up running a hosting service. Generally I implemented bespoke solutions for clients using PHP & Mysql as the back end.

# Referees

### Ben Bowden

Managing Director at [Freo Guitar Tuition](http://Freo Guitar Tuition)  
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### Kammi Rapsey

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### Ross Gerring

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