

# Nelson Shaw

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## Employment

### **WheyCartel - Cofounder and CTO**

*October 2016 - July 2017*

- Built frontend website with ReactJS, Firebase database & authentication, backend with Django & Braintree integration
- Implemented growth marketing, referral and SEO strategy including building several traffic generating websites such as <http://findyourmacros.com>
- Developed split testing optimisation with ReactJS and Google Analytics

### **Haptly - Cofounder and CTO**

*February 2016 - October 2016*

- Participated in Vodafone Xone accelerator
- Problem identification via customer interviews and calls
- Several prototype apps developed in ReactJS with Django API
- Extensive R&D with NDVI data from drone & satellite, soil moisture and climate data, applying machine learning algorithms to predict feed quantity for pastoral based dairy farms

### **Glassjar Ltd (YC W15) - Chief Product Officer**

*October 2014 - September 2015*

- Implemented native Android app including OAuth, Venmo integration and card roulette animations
- Product + API co-design and feature addition to iOS app.
- Extensive research and analysis of the current fintech state – including fiat/crypto currency, payment networks, business and consumer apps
- Developed numerous landing pages, MVP apps, forms and google analytics to validate ideas
- Biz Dev - Customer interviews, lead generation and relationship building

### **Keen Kiwis Ltd - CTO & Co-founder**

*September 2012 - September 2014*

- Product design, MVP creation, market research and consumer validation
- Implemented scalable Django app on AWS with MongoDB & Neo4j (including asynchronous processing)
- Designed full API and implemented proprietary social graph algorithms on MongoDB and Neo4j
- Developed full feature native android app (like Tinder but for events)
- Took part in New Zealand's most prestigious start up accelerator – Lightning Lab

### **National Australia Bank (contractor via Kakapo Technologies) - Lead Dev (team of 3)**

*August 2011 – March 2014*

- Reconciliation & Reporting Tool (Python services + Web app) – complicated data analysis platform that takes feeds of data (csv, flatfile, sql) from 40+ wholesale trading systems, transforms and compares data
  - o Developed new features – data feeds, financial instruments, data transformations, report rendering in xlsx, website data view enhancements
  - o Enhanced existing features – new data views on website, reduced on demand report comparison and rendering time by up to 400%
- Confirmation Server (Java, XSLT & Sybase Server + VB6 GUI) – produces letters of confirmation for creation and amendment of Interest Rate Derivative and Bond trades
  - o Implemented end to end data solution to deliver confirmations of new tailored business loans to NZ Post daily
  - o Various business enhancements to support more granular interest rate margin breakdowns

## Scion (formerly Forest Research NZ) - Software Developer, Intern

September 2012 - September 2014

- Transformation of point data from tree ring images into 3D models (C++)

## Education

### University of Canterbury - Christchurch, NZ

2007 - 2011

B.Sc. (First class honours) in Computer Science and Mathematics (published paper in ECMS)  
Started Ph.D. but exited programme after Research Proposal to accept job offer.

Coursework: Algorithms, Calculus, Computer Visualisation, Cryptography, Data Structures, Information Warfare, Linear Algebra, Programming, Security, Software Engineering, Simulation

## Projects

### TimeTravel (<http://gettimetravel.com>)

Lets you schedule your Uber rides in advance. iOS Swift app with Rails backend.

### Film Hunt (<http://filmhunt.co/>)

Website to find good movies to watch. Built with jQuery, Django + Postgres with data imported from TMDB & IMDB.

### Restup (<https://play.google.com/store/apps/details?id=com.restup.android>)

Android app (native) to count time between sets at the gym.

### ResultShark

Record and compare cycling results over multiple races, Google App Engine + Twitter Bootstrap).

### Websites

APR Consultants (2007); Rotorua International Two Day Walk (full site + event entry & credit card payment integration, PHP & MySQL).

## Scholarships and Awards

- University of Canterbury Emerging Leaders Scholarship in Mathematics (2007)
- Rochester and Rutherford Hall Scholarship (2007)
- Rotorua Young Leaders Scholarship (2007 – 2010)
- Andy Burnett Memorial Scholarship (2007)
- NZQA Scholarship Statistics and Geography (2006)

## Languages and Technologies

- Python; Java; C++; MS SQL; Sybase; Oracle; Neo4j; MongoDB; JavaScript; XSLT; HTML/ CSS; Swift
- Android; iOS; ReactJS; Django; Celery; WebPy; Google App Engine; Push notifications (Android & IOS); Connect Direct; MQ & RabbitMq;
- Eclipse; Visual Studio; PyCharm; Xcode

## References available on request