

Pete Field

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An Innovator and Engineer with a dash of Artist, able to envision the future and use technology to make that future a reality. Experience with modern Javascript frameworks including Backbone, Knockout and Angular. Designed and developed the Favor open-source hardware agnostic IoT Library.

Online Resume – <http://pedalpete.github.io/resume> (written in Backbone.js)

Sample App – http://pedalpete.github.io/windows_idea (written in Angular.js)

Open Source IoT Library – <http://github.com/favor/it> (written in node.js)

Professional Summary

Innovator: Thorough experience in envisioning and creating new products and experiences and improving business processes through technical and non-technical design.

Developer: Built industry leading technology which had stumped multiple highly paid teams, including developing the world's largest database of concerts, effective musician popularity algorithms and data-management systems.

Technical Skills Algorithms, Angular.js, Backbone.js, Business Planning, CSS, Data Management, Javascript, jQuery, Knockout.js, LESS, Machine Learning, Mercury.js, MongoDB, MySQL, Node, PHP, Postgres, Product Management/Project Management, Ruby on Rails, SASS, UX

Continuous Improvement & Open Source Contributions

- January 2014 - 2016 – Published Favor, open-source IoT library for hardware agnostic development – <https://github.com/favor>
- July 2013 – Coding the Matrix, Coursera Linear Algebra and Machine Learning course, completed with 81.2% final grade.

Relevant Experience

Product Engineer

Nicta/Data61.CSIRO, Coviu & Doarama Projects Angular, Mercury, Node, SASS

June 2014 – Present

Joined NICTA to develop their WebRTC applications resulting in the spin-in company Coviu. Coviu lets multiple parties have a video call through a standard web-browser and share and annotate documents together.

Took over managing and developing the Doarama project, a GPS based virtual world web app.

Achievements

- Developed the VirtualCounter web application allowing government call-center agents to have a web-call with members of remote communities, and capture government forms digitally. Included development of a call-queuing system for use in call-center environments which was implemented at Kiama Council for a WebRTC trial.
- Developed ACDC, a module for creating highly dynamic angular applications serving different angular modules, templates and styles depending on user status, rights or other parameters. ACDC manages angular dependency injection, and serves the right pages to the right users in real-time.

- Discovered and developed patent for a method of maintaining a WebRTC connection through page refreshes, resulting in a smoother user experience and improved connection stability.
- Developed server-side of CoviU application managing users and teams ability to create web-calls in the CoviU app, as well as application usage tracking.
- In the first 3 months working on the Doarama project
 - Improved performance of Doarama viewer by orders of magnitude – 3+ minute load time down to 20 seconds
 - Increased time on site by 20%
 - Increased page views by 15%
 - Decreased bounce rate by 15%

Responsibilities

- Product Manage and Develop VirtualCounter, CoviU and Doarama applications
- Define and prioritize features
- Manage development pipeline
- Work with UX/UI designers to create exceptional experiences

Senior Software Engineer

IndustrieIT Ruby on Rails, Knockout.js, MongoDB, PhoneGap/Cordova, iOS, Android
January 2013 – June 2013 (6 months)

IndustrieIT is a medium sized Sydney based consulting company working with multiple national Australian brands and major government initiatives.

Achievements

- Continued development of features and ongoing maintenance for a national Australian brand's Ruby-on-Rails/MongoDB website and API
- Focus on national Australian Brand's HTML5/Phonegap app which is available in both the Apple and Google Play app stores.
- Designed innovative log-in system to increase CRM system sign-ups, implemented app features which had been previously postponed due to difficult implementations.
- Created product upsell system on mobile application and server-side API to recommend related products and increase revenue per order.
- Reconfigured mobile app to enable 'menu browsing', the most requested feature for over a year which the initial development team thought would be too difficult to implement.

Responsibilities

- Ongoing maintenance and development
- Weekly sales reporting and reconciliation
- Product improvement recommendations

Founder

Kitchon Ruby on Rails, Backbone.js, PostgreSQL

November 2010 – January 2013 (2 years – 10 months)

Recognized unique opportunity in recipe market and undertaking a very challenging initiative to enable computers to help us be better cooks. Still in development after many iterations of user testing, constantly learning more about design and machine learning in order to accomplish this very challenging task.

Achievements:

- Early prototypes of cooking app which merges multiple recipes together to create a complete meal.
- Early praise by recipe publishers and potential content partners.
- Have achieved success where many others have failed or given up in the past, included natural language parsing of ingredients.

Responsibilities:

- Create a new business focused on modernizing and improving the recipe and cooking experience.

Emprendador

Start-up Chile Ruby on Rails, Backbone.js, jQuery, Javascript

November 2011 – June 2012 (8 months)

Start-up Chile is an initiative operated by the Chilean Economic Development Agency to foster Entrepreneurship in Chile, with the goal of making Chile the Technical Hub of Latin America.

Achievements:

- Started the Santiago chapter of OpenCoffee.
- Worked with Chilean design graduates giving them experience working on web projects.
- Started the Start-up Chile technology 'tribe', a group of talks presented by other Start-up Chile technologists to foster learning across more than 100 start-up companies.
- Provided business and technical guidance to both local and global start-ups

Responsibilities:

- Foster innovation and entrepreneurship in Chilean Communities
- Link Chilean Entrepreneurs with my extended Global Network

Product Manager, Data Management Architect & Developer

Bravo Business Media Ruby on Rails, MySQL, jQuery, Javascript

May 2011 – October 2011 (6 months)

Bravo Business Media (sold in 2012), was a drop-ship platform provider focused on the household lighting and fixtures market.

Achievements

- Gathered business requirements, and envisioned a solution to painstaking highly labour intensive data management system .
- Delivered a web-based solution resulting in 75% reduction in processing time and considerable accuracy improvement.

Responsibilities

- Find a way to improve the data management process.
- Deliver a web-based solution to ongoing data-management challenges.

Founder

HearWhere PHP, MySQL, jQuery, Javascript, Flash
June 2008 – December 2010 (2 years 7 months)

HearWhere was the world's largest concert database, serving concert listings world-wide both on the HearWhere website and through an API to global brands including Maxim Magazine's music arm, Blender.

Achievements:

- Taught myself to code resulting in development of the world's largest concert database and search engine with more than 8 million concerts.
- Developed artists popularity algorithm for recommending best touring artists by region.
- Developed high-availability API serving and licensed capabilities to Maxim magazines Blender.com.
- First concert listing site able to sample artists music while browsing currently touring artists.

Responsibilities:

- Design and develop a business to provide world-wide concert listings
- Ongoing planning, project management and development of website and API
- Sales and partnerships to provide concert listings to other websites

Mobile Strategy & Project Manager

MusicIP
September 2006 – April 2007 (8 months)

MusicIP was a start-up focused on music recognition technologies providing capabilities similar to Apple's Genius and Track ID technologies.

Achievements:

- Developed technology strategy and recommendations for placing acoustic matching technology on phones and mobile devices (pre-iPhone).
- Product Managed web-properties for SAAS product
- Envisioning and managing design and development of the companies acclaimed 'playground' music discovery web-app.

Responsibilities:

- Understand the technical challenges of music recognition on resource constrained devices.
- Map out the major players in the embedded music space, understanding their business propositions and likelihood of success in order to target the best strategic opportunities.
- Enable developers to easily access the desktop capabilities of MusicIPs recognition technology
- Product Manage a web-based solution to showcase MusicIPs music matching technology.

Operations Manager

Whistler Film Festival

October 2004 – December 2004 (3 months)

The Whistler Film Festival is a highly attended event which takes over the town of Whistler for 10 days in the early season. The year I was manager experienced explosive growth

Achievements:

- Managed a great team through a year of explosive growth and media attention for the festival,
- Managed more than 600 Volunteers, 6 major Industry Parties and multiple National Blockbuster Premiers including Finding Neverland and The Motorcycle Diaries.

Responsibilities:

- Preparation and logistics of multiple events over the course of 10 days, with only 6 weeks of preparations
- Set-up two physical sales centers and a call center for ticket sales
- Organize sponsor advertising placements and manage conflicts with local competing sponsors.

Project Manager

Intrawest HTML, CSS, Javascript, Exchange Server, Verity Search, Windows Server

October 2001 – August 2003 (1 year 11 months)

Intrawest was the largest Resort Operator in the world running diverse businesses from Property Development to Recreational Equipment Rental, and much more.

Achievements:

- Envisioned and managed development of cutting-edge company-wide knowledge management system for 24,000 employees.

- Resulted in an innovative document storage and retrieval system including search capabilities and on-the-fly html translation of documents, making over 2,000,000 of the companies documents searchable and shareable.
- Replaced the 'desktop' for many users by providing a better and faster way for them to access their files.
- Managed the successful proof-of-concept development for company-wide HR review system.

Responsibilities:

- Plan and Lead a team of developers and coordinate with more than 30 stakeholders in the development of a company -wide Knowledge Management system. Reporting to the CIO.
- Work with group 20 HR managers in the development of a proof-of-concept employee review system.