

JOSHUA ANDREW BALLOCH

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Education

2012

McGILL UNIVERSITY

Montreal, Canada

Bachelor of Mechanical Engineering, Honours Program, GPA: 3.88 / 4.0

- *Awards*: British Association Medal (Graduated 1st in program); Dean's Honour List; Brian Cullen Memorial Award; G.H. Duggan Memorial Scholarship; Student-Athlete Honour Roll
- *Thesis*: "The Effect of Scale in Machining Processes", focused on developing methods to build a miniaturized Rankine turbine

2007

INTERNATIONAL SCHOOL of BEIJING

Beijing, China

International Baccalaureate (IB) Diploma 42/45 (99th percentile)

Experience

June 2012 –

GIGABASE

Shanghai, China

Aug. 2013 –

Lead Web Developer

June 2012 – Aug. '13 **Junior Web Developer**

Full stack software developer for a platform helping architects and designers conduct material sourcing & specifying in the cloud. Worked bilingually with Chinese / English team.

Leading the focusing and re-energizing of company's offerings, primarily by building it as an enterprise SaaS for materials management.

- Primary contributor to the development of major features, both on the server and client side, following an Agile Scrum/KANBAN process
- Central planner/architect of our technical architecture, from high level architecture of our stack, to application architecture and solutions

Drove an effort to build up a more robust product management process at Giga.

- Met with clients to conduct research and gather user feedback
- Contributed to brainstorming, sketching, and wireframing in Balsamiq and Illustrator
- Helped restructure and hire new employees to form an independent product management team

Technologies include:

- Primary App: Ruby on Rails, Backbone.js, Marionette, Coffeescript, Javascript, CSS3/SASS
- Server Stack: Unicorn, Nginx, backed by MySQL, Redis, Sphinx, Resque, Sidekiq
- Multistage Deployment & Version Control with Capistrano, Git, Github

Feb 2014–

AirAware

Shanghai, China

Tech Lead & Web Developer

Developing indoor air quality monitoring service for schools & offices in China. Working closely with leading manufacturers to integrate their sensors' data into a cloud service where users can see their data.

2013

McGILL JOURNAL OF LAW & HEALTH

Shanghai, China

Performed upgrades to the McGill Journal of Law & Health website, mjlh.mcgill.ca. Developed in PHP, Javascript & jQuery to make improvements to site layout and design, and social media integration.

2011 - 2012

THINKSPACE.ME

Montreal, Canada

Co-founder

Created an online community for informative discussion on contemporary issues. Developed the site in Ruby on Rails, HTML/CSS, and Javascript; launched on Heroku.

Summer 2010

PRATT & WHITNEY CANADA

Montreal, Canada

Engineering CO-OP Student Externals, Controls, and Nacelle (ECN) Team

Analyzed acceptance tests of fuel control units & fuel/oil heat exchangers. Documented fluid accessories systems for 19 engine variants, and intellectual property protocols for the distribution of documents.

Summer 2007

REDBOX STUDIO

Beijing, China

Graphic Designer & Photographer

Assisted in designing and producing printed matter for various projects in Adobe InDesign, Illustrator, and Photoshop. Hired as primary photographer for Fodor's Beijing Guidebook, Olympics Edition.

Skills

Fluent English, French, and Chinese (Mandarin)

Personal

Electronics: enjoy prototyping and building electromechanical devices

Photography: lived and traveled extensively in China, documenting unique, complex culture, including projects in remote areas of Yunnan with Ventures in Development, and RedBox Studio / Fodor's Travel.