

## Objective

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To leverage the power of technology to solve meaningful problems in an impactful way, and continue the advancement of tools and methodologies used to create reliable, scalable, and secure software systems.

## Skills

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### Operations

Deployed apps with Elastic Beanstalk and Heroku; built and published Docker images; developed build env with Vagrant; wrote func/integration tests

### Backend

Implemented APIs in Go, Node, Java, and PHP; used popular middlewares such as Express, Gorilla, Spring; setup authentication using JWTs and sessions

### Web

Created single-page apps using Angular; used modern JavaScript libraries such as Underscore, Moment, and Handlebars; developed responsive UIs with Bootstrap and Foundation; designed websites using CSS preprocessors SASS and LESS

### Mobile

Developed hybrid apps for Android, iOS, and BlackBerry using PhoneGap; spent time in Eclipse and Xcode configuring; attended a Windows phone workshop

### Data

Used the term "Big Data" in a sentence... but I at least had roommates who were data scientists and attended many talks related to data analytics

## Work Experience

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### LEAD SOFTWARE DEVELOPER - Bauxy - San Francisco, California - May 2015 to Aug 2015

- Developed a platform to ease and automate the process of getting reimbursed for out-of-network health providers
- Orchestrated operations using Docker containers and deployed using Elastic Beanstalk
- Wrote web apps/services in Go and Python, used ORMs to query Postgres database, wore frontend/backend/devops hat

### FULL-STACK NODE.JS DEVELOPER - FlashStock - Toronto, Ontario - Sep 2014 to Dec 2014

- Developed single-page apps and a RESTful API to orchestrate a request of custom stock photography from brands to photographers along with curating photos through an internal application
- Built frontend with AngularJS, developed an API using Node, Express, and Mongo, configured using Puppet and AWS

### FULL-STACK JAVA DEVELOPER - Nuvation Engineering - Waterloo, Ontario - Jan 2014 to Apr 2013

- Developed an internal application to provide employees with a variety of features such as tracking vendor purchases and bills, viewing employee profiles, viewing project lists, and maintaining a timecard
- Built using the Spring framework for Java, and used the Hibernate ORM with MySQL

### WEB DEVELOPER - Rich Media - Toronto, Ontario - May 2013 to Aug 2013

- Developed web and mobile apps for my client ScotiaBank, which communicated with an external API to search for houses listed for sale and plot the data using Google Maps
- Created hybrid apps using PhoneGap for Android, iOS, and Blackberry, wrote backend in PHP

## Projects

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### REAL TIME COLLABORATIVE MARKDOWN EDITOR - markdowners/markdowners

A hackathon project for MeteroHack 2015 that ended up winning for most technically impressive. Built in a team of three, we were inspired to create it because of our heavy use of markdown for school. We also disliked the lack of tools for editing in markdown, so we took ideas from the available markdown editors out there and created markdowners. Developed using Meteor, ShareJS, MarkedJS, and Ace.

### URL SHORTENER - dimitriwalters/url-shortener

Inspired by the hundreds of URL shorteners out there already, I was curious enough to build my own. After lectures one day, I went to the library, put some good music on, and in one session implemented a URL shortener using no backend language — only JavaScript and Firebase — and pushed it to my webhost.

#### **WEB SERVER** - dimitriwalters/web-server

To learn the complicated nature that is C, I asked my IA for my OS course what would be a good project to learn the language — his first response was a web server. Intimidated as I was, I trusted his opinion and built one. As of right now, a client can make an http connection and the server will respond with a “Hello world” web page.

#### **IMPLEMENTATION OF COMMON DATA STRUCTURES** - dimitriwalters/data-structures

Being your typical CS student that wants to build a solid foundation of programming knowledge, I decided to learn data structures in the best possible way: implementing them myself — in C. No hiding the agony of memory allocation with Java, I went as low-level as I could to implement Linked Lists and Binary Search Trees.

#### **NPM PACKAGES** - npmjs.com/~dimitriwalters

About a year ago, I was a huge Node fanboy. I enjoyed writing in JavaScript, but I also liked npm and how the most common packages used were developed from users. I wanted to contribute as well, and wrote three packages of my own. One was a random generator for various situations, one created binary strings based on run-lengths, and the other was a library to do arithmetic with lisp-inspired syntax.

### **Education**

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#### **CANDIDATE FOR HONOURS BACHELOR OF COMPUTER SCIENCE** - University of Waterloo - Waterloo - 2012-2017

- Computer Science Co-operative Program, Software Engineering Option, Management Studies Minor

### **Interests**

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Outdoors, EDM, Smash Bros, Concerts/Clubs, Pokémon, Dragon Ball Z, Drake, Poker, Hacking!