

Junchen(Jack) Zhang

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Skills

Proficient Language: Java, C++, C, Objective-C, Hive, Pascal, SQL, Lisp

Web: HTML, Javascript, jQuery, CSS, C#, Node.js

Framework: Hadoop, MapReduce, Express, Mocha, .Net, Bootstrap, iOS

Tools: Vim, Git, Xcode, Visual Studio, Eclipse

Experience

A9.com (Amazon Subsidiary) - Software Engineer | Palo Alto, CA Jan. 2015 – April. 2015

- Independently designed and developed a **Hadoop MapReduce** job written in Java that takes in raw data, parse them, and import them into HDFS
- Developed a **client side metrics Javascript on Amazon.com** search and detail page that track user behaviors on the ads
- Wrote Hive queries to aggregate user behavior data for analysis
- Visualized the data collected and created a click-through rate graph for the ads on Amazon
- Set up the cron job to run the MapReduce job daily

Undergraduate Research Assistant - University of Waterloo | Waterloo, ON Sept. 2014 – Dec. 2014

- Ported a main-memory database management system to common Lisp
- Worked on two compilers that convert a query-like language that describes relational database to C

CMA - Software Developer | Toronto, ON Jan. 2014 – April. 2014

- Independently developed D&A Magazine Mobile Site (<http://m.damagazine.ca>)
- Developed a web application for creating URL redirects for CMAOntario site

SCM (Opta Information Intelligence) - Web Developer | Markham, ON May. 2013 – Aug. 2013

- Full-stack development of a web application that improved efficiency of inspecting residential properties
- Utilized Javascript, jQuery, CSS, HTML, C#, .Net, Google Map API

Projects (github.com/miracle1949)

Code-B - Bloomberg Algorithm Trading Hackthon

Designed and implemented a stock trading algorithm based on potential growth and dividends using C++

Trail - Velocity Project

Worked in a team and developed a web-based online experience sharing platform. Used Express for routing, React for front end, and SQL lite for database

UWCourses - iOS App on Apple App store

Developed an IOS app for managing UW courses, creating timetables, exam and assignment countdowns in a user-friendly UI. Used Objective-C, core data, Event Kit, University of Waterloo public API

TripPlaner - Hack the North 2014

Utilized MyoTM API to allow users to control Google Map Streetview and take pictures using gestures

Education

Sept. 2012 – Aug. 2017

Candidate for Bachelors of **Business Administration and Computer Science Double Degree**, Honours

Co-operative Program, Wilfrid Laurier University, University of Waterloo, Waterloo