Junchen Zhang

4A Computer Science, University of Waterloo
miracle1949.github.io/project | jackzhangjc@gmail.com | 226-600-8368

Skills

Proficient Language:	Java, C++, C, Objective-C, Hive, SQL, Pascal
Framework:	Hadoop, MapReduce, Express, iOS, .Net
Web:	Node.js, HTML, Javascript, jQuery, CSS, C#
Others:	Git, Unix command line, Visual Studio

Experience

A9.com (Amazon Subsidiary) - Software Engineer | Palo Alto, CA   Winter 2015
- Worked in the advertising team and remodeled the data pipeline to reduce processing time
- Full-stack development of an internal tool utilizing Hadoop MapReduce that ports raw data into HDFS on a cluster
- Developed a client side metrics Javascript on Amazon.com that tracks user behaviors on ads
- Aggregated user behavior data with Hive queries, visualized for comprehensive analysis

Undergraduate Research Assistant - University of Waterloo | Waterloo, ON   Fall 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   Winter 2014
- Designed and developed D&A Magazine Mobile Site (http://m.damagazine.ca)
- Developed a MVC web application for creating URL redirects for CMAOntario.org

Opta Information Intelligence - Web Developer | Markham, ON   Summer 2013
- Full-stack web application development that improved efficiency of inspecting residential properties
- Utilized Javascript, jQuery, CSS, HTML, C#, .Net, Google Map API

Projects   (github.com/miracle1949)

Google GlassBoard - Hack the North 2015   (chordi.co:8080/)
Web-based augmented reality built for Google cardboard that allows the user to interact with visual overlays.
Utilized pixel tracking, WebGL, HTML5 canvas, OpenCV

Code-B - Bloomberg Algorithm Trading Hackthon
Designed and implemented a stock trading algorithm based on potential growth and dividends using C++

Trail - Velocity Project
A web-based online experience sharing platform. Used Node, ReactJS, SQLite

UWCourses - iOS App (on Apple App store)
An IOS app for managing UW courses, timetables, and exam countdowns. Used Objective-C, core data, Event Kit

TripPlaner - Hack the North 2014
Utilized Myo^{TM} API to allow users to control Google Map Streetview and take pictures using gestures

ACM - Participated in 2014 ACM North American Qualifier Contest

Education   Sept. 2012 – Aug. 2017

Candidate for Bachelors of **Computer Science and Business Administration Double Degree,** University of Waterloo, Wilfrid Laurier University, Waterloo