

JEREMY CHEN

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SUMMARY

- Proficient languages: Java, C++, Python, SQL, JavaScript, HTML5, CSS
- Experienced with relational and non-relational databases through research and internship experience
- Familiar with distributed systems through an advanced graduate-level course
- Familiar with object-oriented design, design patterns, and agile methodology
- Developed communication skills through working with product managers and UX designers

EDUCATION

Bachelor of Computer Science, Co-op

University of Waterloo 2013 - 2018 (Expected)

- Minor in Combinatorics and Optimization

PUBLICATION

Graphflow: An Active Graph Database

ACM SIGMOD May 2017

A graph database supporting continuous queries (graphflow.io)

PROJECTS

ARnance - Best FinTech Award in Hack Western 3

An Android app in augmented reality which renders financial dashboard when scanning company logos

Pokemon Go Travelling Salesman Problem Solver

A system which generates efficient routes to collect pokemons using simulated annealing

Simple4Chat

A chatroom-oriented messaging web app using Node.js

Tic-Tac-Toe with Unbeatable Player

A Tic-Tac-Toe game using MVC architecture in C++ as well as an unbeatable AI player using minimax algorithm

WORK EXPERIENCE

Software Developer

Query Processing Team, SAP Jan 2017 - Apr 2017

- Designed partition pruning algorithm to improve the performance of query processing in SAP HANA database (a patent is being submitted)
- Implemented SQL grammar rules to utilize data statistics objects for different types of tables using C++

Full Stack Developer

Miovision Technologies Inc. Apr 2016 - Aug 2016

- Implemented 80% features of the minimum viable product of a real-time organizational management system using Node.js, React, and MongoDB
- Implemented visualizations of OKRs and organizational structures using D3.js

Software Engineer

Dematic Limited Aug 2015 - Dec 2015

- Improved the performance of product configuration by compressing configuration files to 40% using Java
- Implemented a system which analyzes and visualizes testing metrics to show the quantity and quality of product testing using Node.js and D3.js

RESEARCH EXPERIENCE

Voluntary Undergraduate Research Assistant

Graphflow, University of Waterloo Jan 2017 - Apr 2017

- Implemented the viewer of execution plans of a graph database using Java

Undergraduate Research Assistant

Shortest Paths, University of Waterloo Sept 2016 - Jan 2017

- Prototyped graph database indices that improve efficiency of processing short-path queries on large graphs with billions of edges using Java