Jeffrey Zhao

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Education

Sept 2016 – April 2020 | **University of Waterloo**, *Bachelors of Computer Science, Data Science Specialization*.
3.99 GPA, 95% faculty average.

Experience

May 2018 – Aug 2018

Google, *Software Engineering Intern*.
- Worked on **Paper Plane**, a project to modularize and simplify C++ code for DisplayAds.
- Designed and implemented C++ parser for analyzing google3 codebase and underlying call graph of C++ functions. Used Clang ASTs, parallelized with MapReduce.
- Created internal tools for visualizing Paper Plane code structures, and highlighting Paper Plane predicated functions in Code Search.
- Technologies involved: C++, Clang AST, MapReduce, Spanner, Colossus, Blaze, Borg, Code Search.

May 2017 – Aug 2017

Wish (ContextLogic Inc.), *Software Engineering Intern*.
- Worked on **ProductBoost**, a new impressions bidding platform for merchants.
- **Grew from $1 M to $10 M yearly revenue.** Worked in small team of 3 — had high impact.
- Redesigned product registration user stories and data analytics pipelines from MVP.
- Created internal tools for gathering statistics, filtering out low-quality bids, and promoting growth.
- Technologies involved: Python, HTML+CSS+JS, Tornado, Backbone.js, MongoDB, Hadoop.

Dec 2015 – Feb 2016

MasseyHacks I, *Workshops Director*.
Created and oversaw workshops at Canada's first high school hackathon.

Skills

Programming | Algorithms and Data Structures, C++, Python, HTML+CSS+JS, R, OCaml, PHP, Java, Go, LaTeX

Technologies | Linux, MapReduce, Clang, SQL, Pandas, Hadoop, Node.js, Docker

Awards

2017 — **Hack the North**, *Winner*.
Created DoppelGallery, a web app that looks through millions of old paintings for people that look like you. github.com/descrip/doppelgallery

2015, 2016 — **Canadian Computing Olympiad (CCO)**, *Bronze Medal*.
2x bronze medalist. Programming contest for top twenty high school students across Canada, used to select Canada's team for the International Olympiad in Informatics (IOI).

Projects

2017 — **OmongDB**, *C++*.
Developing SQL database written as an on-disk B+tree. github.com/descrip/omong

2016 — **Skirmish Online Judge**, *PHP, HTML+CSS+JS, MySQL*.
Online judge web app for programming contests. github.com/descrip/skirmish