

Jeffrey Zhao

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Education

Sept 2016 – **University of Waterloo**, *Bachelors of Computer Science, Data Science Specialization..*
April 2021 3.99 GPA, 95% faculty average. In co-op program.

Experience

May 2018 – **Google**, *Software Engineering Intern.*

- Aug 2018
 - Worked on **Paper Plane**, a project that modularizes the DisplayAds serving stack.
 - Designed and implemented a C++ parser to extract information on Paper Plane code structures from the google3 codebase, as well as accompanying data processing pipeline, distributed database storage solution.
 - Used this information to autogenerate C++ code for Paper Plane, and help build internal tools to improve Paper Plane developer experience for hundreds of Google engineers.
 - Technologies involved: C++, Clang, MapReduce, Spanner, Colossus, Blaze, Borg.

May 2017 – **Wish (ContextLogic Inc.)**, *Software Engineering Intern.*

- Aug 2017
 - 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 – **MasseyHacks I**, *Workshops Director.*

- Feb 2016 Created and oversaw workshops at Canada's first high school hackathon.

Skills

Programming Algorithms and Data Structures, C++, Python, HTML+CSS+JS, OCaml, PHP, Java, Go, \LaTeX
Technologies Linux/UNIX, MapReduce, Clang, Spanner, SQL, MongoDB, Hadoop, Laravel, Backbone.js, Node.js, Tornado, jQuery, 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

OmongDB, *C++.*

Developing SQL database written as an on-disk B+tree. github.com/descrip/omong

Skirmish Online Judge, *PHP, HTML+CSS+JS, MySQL.*

Online judge web app for programming contests. github.com/descrip/skirmish