# 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 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.

  Output

  Output

  Description:

  Output

  Descrip
- predicated functions in Code Search.

   Technologies involved: C++, Clang AST, MapReduce, Spanner, Colossus, Blaze, Borg, Code Search.

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.
- o 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

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