

David Song

EDUCATION

UNIVERSITY OF WATERLOO

COMPUTER SCIENCE

June 2019 | Waterloo, ON

BLOOR CI

TOPS SCIENCE SPECIALIZATION

June 2013 | Toronto, ON

CONTACT

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CONCEPTS

COMPUTER SCIENCE

Algorithms

Operating Systems

Compilers

MATHEMATICS

Linear Optimization

Graph Theory

Linear Algebra

DISTINCTION

HACK PRINCETON

April 2017 | Princeton, NJ

Hardware Prize

IBM CASCON HACKATHON

November 2016 | Toronto, ON

Winner of Division

HACK ILLINOIS

February 2016 | Champaign, IL

Open Source Favorite

CANADIAN COMPUTING CONTEST

February 2013 | Waterloo, ON

Top 50 Canada-wide

EXPERIENCE

IBM PERFORMANCE QA INTERN

May 2016—Present | Markham, ON | Watson Data Platform

- Tracked down performance regressions using Linux tooling
- Set up continuous integration within team for efficient deployment
- Created a robust API service to break down monolith into faster and simpler applications
- Presented proof-of-concepts with the latest in web like ES2015 and Angular 4
- Mentored new interns on development practices and performance investigations
- Created a carpool application for coworkers

Go AngularJS DB2 TypeScript

TITAN TECHNOLOGIES WEB DEVELOPMENT INTERN

May 2014—August 2014 | Toronto, ON

- Created an API client library and integrated with web application as part of the core pipeline
- Wrote a standalone web design tool using HTML5
- Influenced teammates in accurate logging and documentation

Java Postgres JavaScript

PROJECTS

CONNEXTOR FULL STACK DEVELOPER

December 2014—August 2015 | Waterloo, ON | GitHub

Led the development of ConNextor, a web platform that connects students of different backgrounds to collaborate on projects. Designed various interfaces to help drive projects through its different stages of development.

Rails Docker Ruby Sass

CREA RESEARCHER

September 2014—July 2016 | Waterloo, ON | GitHub

Worked on BioNaVist, a tool to visualize and navigate knowledge relations extracted from biology academic papers. This interface highlights the hidden relationships between different substances, and could different processes within the human body, aiding aging research.

Scala D3 NodeJS

PUBLICATIONS

Garan, Steven, Mark Farrell, Teyden Nguyen, David Song, Michael Tu, and George Brooks. "Using natural language parsing and artificial intelligence techniques to initiate a phase change to biological knowledge." The FASEB Journal 29 (2015)