David Song

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EDUCATION

UNIVERSITY OF WATERLOO
Bachelor of Mathematics
Expected May 2018 | Waterloo, ON
2nd Year in Honors Computer Science
Faculty of Mathematics

COMPUTER SCIENCE
Data Structures and Management
Complexity Analysis

Objected Oriented Programming
C++ | Bash

Computer Design and Architecture
MIPS

Algorithm Design and Data Abstraction
C | Racket

MATHEMATICS
Optimization
(Linear, Nonlinear and Discrete)

Combinatorics
(Enumeration and Graph Theory)

AWARDS/HONORS

Waterloo National Scholarship
2013 | Waterloo, ON
Awarded to eleven University of Waterloo applicant with exceptional skills in math

Canadian Computing Contest
2012 | Waterloo, ON
Top 25 people nationwide in algorithm-intense computational competition

TOPS Program with Distinction
2013 | Toronto, ON
Graduated high school program that offers heavy mathematics and science enrichment with 96% average

EXPERIENCE

APPRENTICE WEB DEVELOPER | Titan Technologies
May 2013 – Aug 2013 | Toronto, ON | Titan-Technologies.org
Back-end developer who adds new features into web platform
- Researched and integrated RESTful API into existing project and revised business model with manager to give rightful discount for service
- Took initiative and gave medium-scale recommendations on implementation of project needs, and new features that complement the project
- Planned and collaboratively built an interactive design tool
- Enforced and helped with logging and documentation within project

Java | AJAX | Apache Struts | JavaScript | HTML5/KineticJS | Ant | Tomcat

PROJECTS

CO-FOUNDER | ConNextor
October 2014 – Present | Waterloo, ON | ConNextor.co
Web platform that brings collaborators together to bring an idea to production.
- Core full-stack developer that started and remains active with the project
- Regular discussion meetings with team of five to improve and implement both technical and non-technical features
- Write beginner-friendly guides and informative posts to ensure the team is on the same page

Ruby on Rails | CSS | Node.js | PostgreSQL | HTML | JavaScript | git

RESEARCHER | BioNaVist Project
September 2014 – Present | Waterloo, ON & Berkeley, CA
Research on storing biological aging process in digital format.
- Research and refine natural language processing algorithms
- Filter mined data with existing accepted data to attain improve and give a sense of accuracy to results
- Graph and cluster data using the Chinese Whispers Algorithm

Scala | PostgreSQL | Natural Language Processing

FOUNDER | After School eSports Publication
January 2015 – Present | Waterloo, ON
Online publication that promotes eSports community and commentate its growth.
- Developing structure of project that allows collaboration between schools
- Building a secure website with clean UI using new framework

Meteor | MongoDB

SOCIETIES

SECRETARY | AppDev Club
January 2015 – Present | Waterloo, ON | AppDev.uwaterloo.ca
- Give tutorials on important frameworks like git to new developers
- Organize meetings with other executives
- Mentor in projects and address any issues