David Song

CONTACT

Https://meetdavidsong.com GitHub://dstratossong Quora://david-song-20 Tel://647-453-9260 Mail://me@meetdavidsong.com

FDUCATION

UNIVERSITY OF WATERLOO

BACHELOR OF MATHEMATICS Expected May 2018 | Waterloo, ON Honors Computer Science

CONCEPTS

COMPUTER SCIENCE

Algorithms

Objected Oriented Programming

Design Patterns

Compiler Design

Data Structures

MATHEMATICS

Linear Optimization

Graph Theory

Linear Algebra

AWARDS/HONORS

CANADIAN COMPUTING CONTEST

2013 | Waterloo, ON

Top 50 worldwide in algorithmintensive competition

TOPS PROGRAM

2013 | Toronto, ON

Graduated from specialized high school program

PROJECTS

FULL STACK DEVELOPER CONNEXTOR PROJECT

December 2014—August 2015 | Waterloo, ON | ConNextor.co Web platform as a bridge between students and real-world projects

- Dockerized Rails application and created deployment pipeline to AWS
- Adapted to fitting design patterns and best practices
- Took time to **refactor** codebase to ensure efficient design and concise code
- Redesigned frontend pages to ensure responsive design
- Carefully planned and discussed on both business and technical sides

AWS Docker Rails Postgres Git Bootstrap

RESEARCHER CREA BIONAVIST PROJECT

September 2014—Present | Waterloo, ON | GitHub

Ongoing research on building a dynamic knowledge graph from text

- Extract relations from sentence trees processed by **Stanford NLP library**
- Filter mined data through a machine learning algorithm
- Manipulate the resultant graph with a clustering algorithm
- Made an interactive frontend to be made useful for other research groups

NLP Spark Scala D3 NodeJS

HACKER ICE SLIDERS GAME

Hack the North 2015 | Waterloo, ON | GitHub | IceGame.co

- Completely redesigned and implemented a multiplayer model for a traditional puzzle game
- Resolved **synchronization** issues for accurate multiplayer gaming
- Finished demoable project in 36 hours with short, concise code
- Extracted parts and packaged for reuse (after)

SocketIO HTML5/Canvas NodeJS C

EXPERIENCE

WEB DEVELOPER TITAN TECHNOLOGIES INC

May 2014—August 2014 | Toronto, ON | Shipmatica

Small team that worked on Shipmatica, a consumer product shipping proxy

- Integrated Endicia into core application pipeline through APIs, and deployed after full testing cycles
- Took initiative to act on opportunity and worked out a revised cost model
- Built a fully-functional prototyping tool within the browser in 3 weeks
- Leader in accurate logging and descriptive documentation within project

HTML5/Canvas JavaScript Postgres Ant Java