

# Jonathan Wang

SOFTWARE DEVELOPER · 2B COMPUTATIONAL MATHEMATICS

☎ +1(416)-578-5856 | ✉ j2279wan@uwaterloo.ca | 🏠 jonathanwang.dev | 📱 jonwang2000 | 🌐 jonathanwang2000

## Work Experience

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### SickKids Foundation

Toronto, Ontario

SOFTWARE DEVELOPER IN COMPUTATIONAL MEDICINE INTERN

Jan. 2020 - Apr. 2020

- Developed features and bugfixes for RareConnect, a social network for individuals with rare diseases
- Overhauled community map with new design and clustering logic to improve performance
- Created migration scripts and security fixes for database and back-end
- Independently built web-app interface for medical image processing algorithm
- Application processed, converted, and cropped DICOMs in bulk on the front-end
- *React.js, Material-UI, Node.js, PostgreSQL, FeathersJS*

### Monogram CC (formerly Palette Gear)

Waterloo, Ontario

SOFTWARE DEVELOPER CO-OP

May. 2019 - Aug. 2019

- Developed error tracking and reporting service for back-end and desktop application
- Created integrations for crash-reporting service in application and JavaScript plugin, creating UI using QML for user interaction
- Added minidump uploading integration in desktop application to improve debugging and error tracking
- Implemented continuous integration service for backend
- Manually tested hundreds of scenarios for desktop software and hardware
- *Node.js, C++, Qt, Azure DevOps*

## Skills

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**Languages** JavaScript, C++, Python, CSS, HTML5, SQL

**Technologies** React.js, Node.js, Material-UI, Qt/QML, Git, Bootstrap, JQuery, PostgreSQL, CircleCI

## Education

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### University of Waterloo

Waterloo, Ontario

BACHELOR'S OF MATHEMATICS - COMPUTATIONAL MATHEMATICS

Sep. 2018 - Current

- CS 136: Elementary Algorithm Design and Data Abstraction - 84%
- CS 246: Object Oriented Software Development - In Progress

## Projects

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### Two Player Snake

PYTHON, PYGAME

- Developed classic snake game with singleplayer and leaderboard for score tracking
- Implemented multiplayer mode involving two players competing against each other

### Personal Site

REACT.JS, GATSBYJS, GRAPHQL, CSS

- Created responsive portfolio/blog with CSS Flexbox/Grid
- Blog uses GraphQL to transform markdown to blog pages

## Extracurricular

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### DECA Ontario, Earl Haig Chapter

Toronto, Ontario

ORAL TRAINER

Oct. 2017 - Mar. 2018

- Instructed a class of students in business knowledge weekly, resulting in 75+% class progression to provincial stage and an individual to internationals
- Held one on ones to prepare students for case studies and exams during competitions