

JONATHAN WANG

Software Developer · 3A Computational Mathematics

jonathan.wang@uwaterloo.ca · 416-578-5856 · jonathanwang.dev

EXPERIENCE

Box Labs | Software Developer Co-op

React.js, Redux, Electron, TypeScript

Toronto, Ontario

Sep 2020 - Dec 2020

- Created customer prescription pickup system for quicker and more streamlined user experience
- Developed patient notes/document upload system for improved patient information utility
- Implemented global redux error handling for electron application for improved tracing and reporting
- Migrated desktop Electron application to TypeScript to improve code legibility and reduce type errors
- Maintenance/support of application used by pharmacies to connect healthcare systems

SickKids Foundation | Developer in Computational Medicine Intern

React.js, Material-UI, Node.js, PostgreSQL, FeathersJS

Toronto, Ontario

Jan 2020 - Apr 2020

- Developed web app that converted/cropped bulk DICOMs to be evaluated for chance of surgery
- Maintenance/support of medical social network website, including overhaul of user report system for admins for improved content moderation
- Redesigned community map with new design and clustering logic for vastly improved user performance
- Created migration scripts and security fixes for database and backend

Monogram CC (Formerly Palette Gear) | Software Developer Co-op

Node.js, C++, Qt, Azure DevOps

Waterloo, Ontario

May 2019 - Aug 2019

- Integrated JavaScript services and designed user reporting option to centralize error reporting/tracing
- Added minidump uploading integration in C++ application for improved debugging
- Implemented Azure continuous integration service for backend on Windows environments
- Manually tested hundreds of scenarios for desktop software and hardware

EDUCATION

University of Waterloo

BMath Computational Mathematics

Waterloo, Ontario

Sep 2018 - Apr 2023

- CS136: Elementary Algorithm Design and Data Abstraction - 84%
- CS246: Object Oriented Software Development - 89%

SKILLS

Languages: JavaScript, TypeScript, C++, Python, CSS, HTML5, SQL

Technologies: React.js, Node.js, Electron.js, Material UI, Qt, Bootstrap, Git, PostgreSQL, CircleCI

PROJECTS

Two Player Snake *Python, PyGame*

- Classic game of snake with additional head to head multiplayer mode

Personal Portfolio *Gatsby, JavaScript, React.js, CSS*

- Single Page App, responsive portfolio with CSS Flexbox/Grid using GraphQL for blog

Command Line Hydra *C++*

- Multiple player command line based card game involving stacking and splitting mechanics
- Players attempt to play all of their card before their opponents can