JONATHAN WANG
3B Computational Mathematics

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EXPERIENCE

Accedo.tv | Software Developer (Connected TV)   Toronto, Ontario
React.js, Lightning.js, Node.js   May 2021 - Aug 2021
- Responsible for responsive **mobile design** for video streaming React app for Tier-1 US Cable Operator
- Integrated Youbora services for Bloomberg News Comcast X1 app, providing user ads/video **analytics**
- Engineered cross-platform notification backend using **Express** and **Firebase** for proof of concept project

Box Labs | Software Developer   Toronto, Ontario
React.js, Redux, Electron, TypeScript   Sep 2020 - Dec 2020
- Created customer prescription pickup and patient notes/document upload system for quicker and more streamlined **user experience**
- Implemented global **error handling** and migrated Electron application to TypeScript for improved tracing and **maintainability**
- Created schema, migration scripts and security fixes for **database** and **backend**

SickKids Foundation | Software Developer (Computational Medicine)   Toronto, Ontario
React.js, Material-UI, Node.js, PostgreSQL, FeathersJS   Jan 2020 - Apr 2020
- Led development of **React** app that converted/cropped bulk DICOMs to evaluate for surgery chance
- Overhauled content report system adding comprehensive options to improve **efficiency** of moderation
- Redesigned community map with new clustering logic for vastly improved user **performance**

Monogram CC (Formerly Palette Gear) | Software Developer   Waterloo, Ontario
Node.js, C++, Qt, Azure DevOps   May 2019 - Aug 2019
- Integrated JavaScript services, C++ minidumps, and designed user reporting option to centralize **error reporting**/tracing to improve quality assurance
- Implemented **Azure Pipelines** continuous integration service for backend on Windows environments
- Manually tested hundreds of scenarios for desktop software and hardware

SKILLS

Languages:	JavaScript, TypeScript, C++, Python, CSS, SQL
Technologies:	React.js, Node.js, Electron.js, Lightning.js, Qt, Git, PostgreSQL, CircleCI

PROJECTS

Polling App *Next.js, Express.js*
- Full stack web-app using websockets to poll users in dynamically created rooms

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

EDUCATION

University of Waterloo   Waterloo, Ontario
BMath Computational Mathematics   Sep 2018 - Expected Apr 2023