WILL CLARK

SOFTWARE DEVELOPER

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willdavidc

will-clark

https://willclark.io/

TECHNICAL SKILLS

LANGUAGES

- JavaScript & Node.js
- C++
- C
- HTML & CSS
- Java

FRAMEWORKS

- React & LESS
- Express
- Qt & QML
- Electron
- jQuery

TECHNOLOGIES

- Git
- Linux & MacOS
- Docker
- AWS
- Heroku
- Arduino
- WebSockets

EDUCATION

Candidate for B.ASc.
MECHATRONICS ENGINEERING
University of Waterloo | 2020

EXPERIENCE

THALMIC LABS — **Sept - Dec 2017**
Software Prototyping
C++, Qt & QML, JavaScript & Node.js, Java, many others

- Built prototypes in short 1-2 week sprints, testing out new product ideas before significant resources were devoted to them.
- Created software tools to increase efficiency of the other engineering teams, often by automating repetitive parts of their workflow.
- Worked collaboratively as part of a highly-skilled team, but also proposed and led several projects personally, including a tool for Thalmic's UX team to reduce their design iteration time from 30s to <1s.
- Twice presented finished projects at company-wide meetings.
- Proactively arranged meetings with individuals across the company to discover impactful use cases for new tools and prototypes.

THALMIC LABS — **Jan - April 2017**
Full Stack Web Development
Node.js (ES2015), JavaScript, React, PostgreSQL

- Built out and improved services within a microservice architecture.
- Proposed and implemented a simulation parallelization service, accelerating a time consuming task by 1000x.
- Designed front-end interfaces for internal web services and tools.

VIDEOSTREAM — **May - Aug 2016**
Database Management
JavaScript & Node.js

- Helped to design a replacement system for populating a central database, with 10X speed increase.
- Wrote scripts and macros to greatly expedite large portions of the work.

PROJECTS

SuperQueue — NPM
Node.js

- NPM package for asynchronously queueing Promises.
- Allows a queue of promises to be executed with adjustable concurrency, rate, and priority.

Tetr.js — Demo
JavaScript, HTML, CSS

- Genetic algorithm which teaches itself to optimally play Tetris.
- Developed from scratch with no ML libraries: algorithm is based upon basic theories of biological evolution.

Arbiter — GitHub
Node.js

- Cryptocurrency trading bot, which uses triangular arbitrage to take advantage of market inefficiencies.
- Surprisingly successful, with consistent profit margins.

INTERESTS

- Rock climbing
- Amateur robotics
- Debate and public speaking
- Ethereum Dapp development