Jack Guinane

jackguinane@gmail.com | (416)-885-1203 | github.com/qjack001

EXPERIENCE

Freelance Developer, 2018–Present
Worked with a range of businesses to develop web & software applications.
- Planned & managed large software projects
- Provided web design, development, and SEO services, resulting in up to a 96% mo/mo increase in traffic

Owner/Operator of Painting Service, 2015–2019
Self-employed painter over the summer months.
- Planned and budgeted projects, up to $7,000
- Communicated with clients throughout the process
- Managed a team of five

App Developer for Etobicoke Iron Works, 2018
Contract full-stack developer over the the months of May to August.
- Developed architecture of inventory tracking app & database
- Designed UX model, modernizing and streamlining data-input process
- Implemented cross-platform app, resulting in the reduction of lost inventory

Teaching Assistant for Queen's School of Computing, 2018
TA for Prof. Wendy Powley's CISC 121 Intro to Computer Science II class (Queen's University), during the Winter and Fall semesters of 2018.
- Graded programming assignments, proctored midterms
- Held office hours and interacted with students one-on-one
- Taught students programming and programming-best practices

SELECTED PROJECTS

Eye–Tracking OS, .../qjack001/Eye-Tracking-OS
The final project for CISC-325 (Human-Computer Interaction), a concept UI designed & developed to leverage eye-gazing as a primary interaction method.
- Utilized & improved upon Webgazer.js to eye- track through standard webcam
- Designed iteratively, conducting user-tests throughout in a team of 5

Wherehaus app, .../qjack001/Wherehaus
A cross-platform mobile application commissioned by Etobicoke Ironworks to solve their growing inventory issues. The app allows employees to snap a photo of an item, saving its location and info using Firebase's Realtime Database.
- Gained experience in project management and software architecture
- Developed in a team of 2, over a 4-month schedule

Fuzzy Logic Coffee Controller, .../qjack001/CISC-467-Implementation
A fuzzy logic Javascript framework and expert system for at-home coffee brewing, built for the implementation project of CISC-467 (Fuzzy Logic).
- Built and tested a flexible Mamdani-based fuzzy framework in pure Javascript
- Designed, implemented, and documented an expert system that determines the optimal brewing strategy through 4 output variables
- Provided an in-depth white paper on process and next-steps

EDUCATION

Queen's University, 2020
Bachelor of Computing (Hons.)
- Specialization in Computer Science
- 3.45 cumulative GPA

HONOURS

- Dean's List, 2017–2018
- Honour Roll With Distinction
- Ontario Scholar
- Gifted Diploma
- Queen's Excellence Scholarship

SELECTED CLASSES

- CISC325: Human-Computer Interaction
- CISC235: Data Structures
- CISC322: Software Architecture
- CISC422: Formal Methods in Soft. Eng.
- CISC282: Fund. of Web Development
- CISC467: Fuzzy Logic

SKILLS

- Experienced in Java, C, JavaScript, Python, Haskell, Prolog, Dart; interested in working with Rust, WebAssembly, & Go
- Deep understanding of Object-Oriented and Functional Programming paradigms
- Extensive knowledge of core front-end web technologies, HTML, CSS, JavaScript, as well as modern accessibility standards
- Familiar with relational databases, MySQL, JSON, and Firebase
- Strong understanding of formal verification using Alloy and NuSMV, static code analysis using Understand
- Proficient with Bash, Git, and system-level programming in general
- Experienced with iterative design processes, prototyping, and user testing
- Certified CPR-B, American Sign Language (level 2B), and Positive Space training