Jack Guinane

jackguinane@gmail.com | (416)-885-1203 | guinane.xyz

EXPERIENCE

Freelance Developer, 2018–Present
Worked with a range of businesses to develop web & software applications.
- Planned & managed large software projects in Javascript, PHP, and Liquid
- 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 3

App Developer for Etobicoke Iron Works, 2018
Contract full-stack developer over the months of May to August.
- Developed architecture of inventory tracking app & database (w/ Firebase)
- Designed UX model, modernizing and streamlining the data-input process
- Implemented cross-platform app using Dart, reducing the loss of 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 Python programming assignments, developed Bash script to assist
- Held office hours and interacted with students one-on-one
- Taught classes of 20 students programming & 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
- Worked and self-managed in a development team of 5

Wherehaus app, .../qjack001/Wherehaus
A mobile application commissioned by Etobicoke Ironworks to solve their
growing lost-inventory issues. Developed in a team of 2, on a 4-month schedule.
- Built using Flutter and Dart, allowing for fast cross-platform development
- Gained experience in project management and OOP architecture
- Interacts with Firebase's Realtime database to save item location & image

Fuzzy Logic Coffee Controller, .../qjack001/CISC-467-Implementation
A fuzzy logic Javascript framework and expert system for at-home coffee
brewing, built as an extension of my CISC-467 (Fuzzy Logic) term paper.
- 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 3 input and 4 output variables
- Provided an in-depth white paper on process, findings, 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

EXTRACURRICULAR

- Orientation Leader
- Math & Computer Science Tutor

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

- Front-end, HTML, CSS, JavaScript, PHP,
   web accessibility, jQuery, Vue.js
- Java, C, Python, Haskell, Prolog, Dart;
   interested in Rust, WebAssembly, & Go
- Relational databases, MySQL, JSON,
   Firebase, Git, Bash
- Formal verification, Alloy, NuSMV, static
   code analysis using Understand
- Object-Oriented and Functional
   Programming paradigms
- Iterative design processes, prototyping,
   user research & testing, Sketch, Adobe XD
- Certified CPR-B, American Sign Language
   (level 2B), and Positive Space training

LINKS

- Github: https://github.com/qjack001
- Portfolio: https://guinane.xyz