

Louis Johnson

Software Engineer

Experience

Circle Cardiovascular Imaging

Full-Stack Software Engineering Intern

Calgary

May 2019 — Sept 2020

- > Assisted in the prototyping and building of cloud-based software solutions that doctors can use to quickly and accurately diagnose patients
- > Utilized ES6 Javascript, Go and C++ in conjunction with React-Redux, Webpack, MongoDB and Nginx
- > Spearheaded vital in-house features such as image reformation, automated integration and deployment pipelines and standalone installers
- > Wrote unit tests, mocks and calculated performance timings to validate and justify code pushes
- > Participated in industry standard agile training through countless scrums and discussions surrounding goals, roadblocks and best practices
- > Member of the company's internal quality audit team

Calaway Park

Rides Leadership

Calgary

April 2014 — Oct 2018

- > Overseeing the day to day operation of the Rides Department, ensuring smooth and efficient performance of over 175 Ride Operators, Ride Senior Team and Ride Captains
- > Administrative work involving the filing of all employees, payroll responsibilities and scheduling of workers within the department
- > Upholding company standards and ultimately enforcing Calaway's corporate culture through various forms of disciplinary action

Projects

Medical Imaging Analyser - Python + ReactJS + WebGL Tiered System (Group)

Image processing application that utilizes numerical methods and machine learning to aid physicians in making accurate prognosis from CT scans

Poker Game WebApp - Typescript + Vue + SQLite (Group)

Online texas holdem application with custom game engine and support for multiple accounts and lobbies with up to 9 players

8-bit Breadboard Computer - Arduino (Individual)

Physical computer built on breadboards complete with custom built ALU, clock and RAM. Supports programmable instructions to complete simple assembly operations

Laser Tag - IAR embedded system (Group)

Laser Tag game implemented with IR emitters and receivers. Utilized duty cycles and signal processing to create interactive game with three lives and resetting capabilities

Volunteer

Student Recruitment Ambassador


Spoke at University of Calgary open house to over 300 prospective students about the Schulich School of Engineering

Calgary Youth Science Fair Judge - 3 years

Encouraged and rewarded critical thinking among elementary school science projects

Youth Football Coach - 5 years

Mentored and facilitated the growth of student athletes through respect, accountability and patience both on and off the field

 (403)-461-9300

 louisj381@gmail.com

 louisj381.github.io

 github.com/louisj381

 www.linkedin.com/in/louis-johnson381

Education

University of Calgary

2016 - 2021 — Calgary, AB

Bachelor of Science (B.S) in Software Engineering

Cumulative GPA: 3.8

Skills

Languages

JavaScript (proficient)

C++ (proficient)

Python (prior experience)

Java (prior experience)

Go (prior experience)

Powershell (proficient)

Tools

ReactJS

Redux

TeamCity

Jira

WiX

Laravel

Git

MySQL

MongoDB

IAR

Socket.io

Awards

Jason Lang x 2

Undergrad Merit Continuing x 2

Calaway Exceptional Employee x 2

President's Admission

Alexander Rutherford

Football All-Around Player

Football Alumni