Joshua Calder

Montreal, QC | joshuamcalder@outlook.com | github.com/joshuacalder

Technical Skills

- Adept: Python (Django, Flask), JavaScript (React, React Native, Next.js), Java
- Proficient: Swift, PHP, Scala, C/C++
- Other technologies: AWS, Docker, Git, Google Cloud Platform, Serverless Framework, GraphQL/REST, PostgreSQL, MongoDB

Experience

Lifehouse Hotels

Software Engineer

- Implemented real-time messaging features integrated with AWS, Salesforce, and Python (Django and Serverless) to allow communication between hotels and guests
- Updated and delivered a completely redesigned native IOS application (Swift) based on new branding and design requirements
- Updated APIs for hotel services (REST to GraphQL) to match new requirements while maintaining backwards compatibility

Shutterstock

Software Engineer

- Worked on Shutterstock's Music Internal Tools as a full-stack dev to develop key features for internal audio processing tools
- Significantly simplified the front-end table architecture by redesigning and refactoring using React hooks, functional components, and Redux
- Improved code testing coverage in both backend and frontend environments -

Aptean

Software Engineer Intern

- Main contributor for a major update release of education management software
- Designed, developed and tested a custom spam-prevention email authentication system using PHP and MySQL
- Accepted a 4-month extension to work with the recreation management software team to implement new facility management booking features

PG Music

Developer

- Debugged incorrect MIDI data representations of instrumental audio recordings
- Ensured musical notation was accurately displayed inside musical accompaniment software -Band-In-A-Box

Montreal, QC

Nov 2020 — Present

Montreal, QC

Nov 2019 — Nov 2020

Kelowna, B.C.

June 2017 — Dec 2017

Victoria, B.C.

Sept 2015 — May 2016

Education

Bachelor of Science, Computer Science (Software Engineering Option) Sept 2015 — Apr 2019 University of Victoria — Victoria, B.C.

- Relevant Coursework: Software Development Methods & Operating Systems, Software Scalability & Database Systems, Computer Communications & Networks

Personal Projects

Fretgym.com — Django, Flask, PostgreSQL, JavaScript

- Developed and deployed a web app that generates custom guitar practice routines based on a user's practice preferences
- Featured on ProductHunt.com, currently has hundreds of registered users
- Streamlined production deployment to automate various build tasks and production pushes
- Manually set up Linux server on cloud hosting to serve Fretgym

jimi — Django, MongoDB, ReactJS

- Collaborated in a small team to create a location-based collaborative music playlist generator for UBC's NWHacks 2019
- Integrated the Spotify API to authenticate user's accounts and query their recent listening activity

Lyra — Python, NLTK (Natural Language Toolkit)

- Developed a natural language lyric generator using constrained Markov chains under the direct supervision of a University of Victoria professor
- Wrote a script that queries the genius.com lyric API to collect large amounts of training data

WikiWikiWikipedia — JavaScript, CSS, HTML

- Worked in a small team to develop an open-source Chrome extension that plays relevant audio while browsing Wikipedia. Created for the HackUVic programming competition
- Integrated YouTube API to query audio based on scraped Wikipedia HTML data

March 2018

Feb 2019

Ian 2010 — April 2010

May 2018 — Present