# Michael Eden

## Systems Design Engineering

## **Work Experience**

#### Backend Developer @ TunnelBear

Jan '20 - Apr '20 Java, Scala, AWS, Docker

Containerized core Scala microservice with Docker, and implemented CI/CD with GitHub Actions.

Increased efficiency of two most time-consuming processes in core Scala microservice by a factor of 4.

## Software Developer @ Hootsuite

May '18 - Apr '19

Scala, PHP, Go, React, Redux

Reduced time to add new features for any given paid package from 2 hours to 5 minutes (95% reduction).

Used Go, React, Redux, and Elasticsearch to develop an interface for a data lake containing 17 million documents.

#### Python Developer @ SideFX

Sep '17 - Dec '17

Python, Qt, Houdini

Added 8 complete features, such as directory structuring, to the 3D character pose library using the Python Qt framework.

Improved accuracy of 3D character-pose capture.

## Software Developer @ lotum Inc

Jan '17 - Apr '17

Python, Selenium, Ruby on Rails

Automated 73 unique test cases across multiple browsers and operating systems using Python and Selenium.

## **Projects**

#### inquests.ca

2019 - Present

TypeScript, React, MySQL, AWS

Designed and developed a searchable repository of over 1700 records pertaining to Canadian death investigations.

Conducted 10 interviews with death investigation professionals to perform a needs analysis.

Deployed React frontend on AWS S3 with CloudFront, and deployed Express backend on AWS Lambda.

#### **PyFractals**

2018

Python, NumPy, Qt

Built an interactive fractal generator which allows for the creation of unique Mandelbrot, Julia, and Newton fractals.



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github.com/MichaelAEden



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## Languages

Java

JavaScript

Scala

TypeScript

Python

• PHP

Go

• HTML

• SQL

• CSS

#### **Tools and Frameworks**

AWS

React

• Docker

• Redux

GitHub Actions

Flask

GitNode

ExpressNumPy

## **Paradigms**

- · Object-oriented programming
- Functional programming
- RESTful programming
- · Agile and Scrum

#### **Education**

## Systems Design Engineering University of Waterloo

3.9 GPA. Ranked 9 out of 91.

### **Extracurriculars**

## Hardware Team @ Neurotech

Jan '20 - Apr '20

Investigated solutions for creating a brainwave-detecting headset.

## Project Lead @ Coffee N Code

Sep '19 - Jan '19

Developed and led workshops for building a React-Flask web application.

#### **Interests**

Travelling, juggling, hiking, running, sketching, cooking, inquests (fatality inquiries; see inquests.ca).