

LENA NGUYEN



lenanguyen.ca



LenaNguyen



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SKILLS

Languages: Javascript, Ruby, C++, Python, Typescript, Kotlin, SQL, GraphQL

Frameworks & Tools:

React, Node.js, Rails, Flask, AWS, Git, Agile Development

Databases:

MySQL, PostgreSQL, Firestore

ACTIVITIES

First Place Overall Winner |

Citizen Hacks, 2019

Built a chrome extension which blocks children from giving out sensitive info.

Product / UX |

UW Alternative Fuels Team, 2019

Co-Head of Experience |

Energy Hacks, 2019

President | Social Justice,

2017 - 2018

Executive Team |

Peel Environmental Youth Alliance, 2016 - 2018

EDUCATION

SYSTEMS DESIGN ENGINEERING (BASC)

UNIVERSITY OF WATERLOO | GPA: 3.85 | 2018 - PRESENT

- Dean's Honors List - Fall 2018, Spring 2019

EXPERIENCE

SOFTWARE DEVELOPER

SHOPIFY | MAY 2020 - PRESENT

- Researching and prototyping an **attribute based access control system** to centralize authorization within the Shopify ecosystem.
- Shipped the end to end implementation of a SAML domain deletion feature to **over 150 000 users** (Ruby on Rails, Typescript, GraphQL).

SOFTWARE TECHNICAL LEAD

LLETTONNA | MAY 2020 - PRESENT

- Leading the **back end and android team** of 4 developers to create an app which provides cognitive behavioral therapy. (Kotlin, Node.js)
- Implementing **video streaming** for therapy videos with AWS S3
- Established parallel testing to reduce execution time from **several minutes to 20 seconds**
- Added role-based authroization by implementing JSON web tokens

FULL STACK DEVELOPER

BONFIRE | SEP 2019 - DEC 2019

- Leveraged **AWS SNS, SQS** and **Lambdas** to persist user account changes to databases in different regions.
- Revamped testing infrastructure to **increase code coverage by 200%**.
- Automated the syncing of **thousands of projects** using JavaScript and MySQL to **increase data accuracy** between databases.

SOFTWARE DEVELOPER

UW BLUEPRINT | MAY 2019 - DEC 2019

- Leveraged AWS S3, GraphQL, and Typescript to implement efficient, scalable **cloud document hosting**.
- Transitioned project to use **from NoSQL to SQL** to improve performance and development time. (Python, Flask, PostgreSQL)
- **Reached 500+ users** with the open-source applications developed.

BACK END DEVELOPER

SOULFX | JAN 2019 - APR 2019

- Automated the filtering and onboarding of incoming prescriptions to **decrease prescription fulfillment time by 30%**. (C#, .NET, Quartz)
- Implemented an **observer design pattern** to reduce the update delay of web multiple applications by **30 minutes**.

PROJECTS

AUTONOMOUS CAR AI

PERSONAL PROJECT | GITHUB.COM/LENANGUYEN/AUTONOMOUSCAR

- Developed a **convolutional neural network** using Keras and OpenCV to classify 43 different street signs with **93% accuracy**.
- Leveraged **behavioral cloning** to train a simulated car to drive on a new track autonomously.
- Supplied **real-time data** to model using Flask and Socket.io