LENA NGUYEN

SOFTWARE DEVELOPER

lenanguyen.ca

LenaNguyen

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SKILLS

Languages: Javascript, C++, Python, C#, HTML/CSS, SQL, GraphQL, Typescript

Frameworks & Tools: React, Node.js, Express, Hapi.js, Flask, .NET, AWS, Firebase, Git, JIRA, Jest, Cypress, Microsoft Azure, Numpy, Matplotlib, Keras

Databases: MySQL, PostgreSQL, Firestore

ACTIVITIES

Product / UX | UW Alternative Fuels Team, 2019

Co-Head of Experience | Energy Hacks, 2019 - Present

President | Social Justice, 2017 - 2018

Executive Team | Peel Environmental Youth Alliance, 2016 - 2018

International Top 10 Winner | out of 600, DECA, 2016

EDUCATION

SYSTEMS DESIGN ENGINEERING (BASC)
UNIVERSITY OF WATERLOO | **GPA:** 3.85 | 2018 - PRESENT

- Dean's Honors List - Fall 2018, Spring 2019
- Courses: Digital Computation - C++, Data Structures and Algorithms

EXPERIENCE

FULL STACK DEVELOPER
BONFIRE | SEP 2019 - DEC 2019

- Independently architected and implemented a secure password reset feature with **Node**, **AWS**, and **React**.
- 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**.
- Migrated database to use **SQL instead of NoSQL** to improve performance, development time, and code readability. (**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 with **90% accuracy**.
- Supplied **real-time data** to model using **Flask** and **Socket.io**

SAFE.NET
CITIZEN HACKS | GITHUB.COM/LENANGUYEN/CITIZENHACKS

- Won **first place overall** among 150 other hackers.
- Developed a Chrome extension that detects and blocks input fields asking for sensitive information with **JavaScript.**
- Architected a **React** app parent portal to monitor browser activity in real-time. (**Node**, **Firebase, Google APIs**)