

# LENA NGUYEN

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## EDUCATION

**University of Waterloo** | Systems Design Engineering, BAsC.

**Sep 2018 - Apr 2023**

- GPA: 3.82. Dean's Honors List (top 10 in cohort) - Fall 2018, Spring 2019.

## EXPERIENCE

**StackAdapt** | Software Engineer

**Jan 2021 - Apr 2021**

*Ruby on Rails, Docker, Elasticsearch, GraphQL, React, Redux*

- Developed an ad performance prediction tool by dynamically querying and processing 200 000+ documents of historical data from Elasticsearch, reducing manual hours by 80%.
- Shipped a monitoring system consisting of StatsD, Telegraf, Prometheus, and Grafana to collect and visualize hundreds of metrics per minute.
- Collaborated with designers to standardize component library to increase UI/UX consistency.

**Shopify** | Software Engineer

**May 2020 - Aug 2020**

*Ruby on Rails, React, GraphQL, Docker, Redis*

- Shipped SAML authentication feature to 150 000+ users and met adoption KPIs in the first month.
- Researched and prototyped an attribute-based access control system to centralize authorization.
- Designed a caching system with Redis to reduce network calls between three different services.

**Llettonna** | Technical Lead

**May 2020 - Aug 2020**

*Node.js, AWS, PostgreSQL*

- Led backend team at a non-profit to create a cognitive behavioural therapy app for new moms.
- Determined a feasible MVP, architected the backend, and completed API development in 4 months.
- Established parallel testing to reduce execution time from several minutes to 25 seconds.

**Bonfire** | Fullstack Developer

**Sep 2019 - Dec 2019**

*Node.js, React, AWS, MySQL*

- Leveraged AWS SNS, SQS and Lambdas to persist account changes to different database regions.
- Automated syncing of thousands of projects to increase data consistency between databases.
- Set up React Testing Library to double test coverage, reducing the number of reported bugs.

**UW Blueprint (Club)** | Software Developer and Mentor

**May 2019 - Dec 2019**

*Python, Flask, AWS, GraphQL, React, PostgreSQL*

- Reached 500+ users with the open-source applications developed for non-profit organizations.
- Mentored junior developers and collaborated with stakeholders to ship two web applications.
- Implemented scalable document hosting and sharing feature using AWS S3 and Node.js.
- Transitioned application from using non-relational to relational database to improve performance, development time, and code readability.

## PROJECTS & AWARDS

**Autonomous Car AI** 🔗

- Developed an AI to drive on a simulated racetrack by cloning the behaviour of a human driver using Python, Tensorflow, and Keras. Supplied real-time steering predictions with Flask and Socket.io.

**Safe.net (Citizen Hacks 2019)** 🔗

- Placed 1st overall out of 90. Designed, built, and pitched a chrome extension and web portal that prevents children from giving out sensitive information online using React, Firebase, and Node.js.

**Apply Board Coding Challenge (2020):** Placed 2nd out of 140.

## SKILLS

- **Languages:** Ruby, JavaScript, C++, Python, Typescript, SQL, GraphQL
- **Frameworks & Tools:** Rails, React, Node.js, Docker, Flask, AWS, Git, StatsD, Prometheus, Elasticsearch
- **Data Storage:** PostgreSQL, MySQL, AWS S3, Firebase, Redis