

# LINA NGUYEN

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## ACHIEVEMENTS

**1st Place** UBC 2020 Software Engineering Competition, **4th Place** Machine Learning Competition, **Honorable Mention** nwHacks 2021 (Western Canada's Largest Hackathon), **UBC Dean's Honour List** (85%+ GPA, 27+ credits, full course-load)

## EDUCATION

**University of British Columbia**

*Sept 2016 – Apr 2022, Vancouver BC*

**Engineering Physics, Computer Science Specialization – Bachelor of Applied Science**

**GPA: 3.7 / 4.0**

- **Coursework:** Software Engineering, Data Structures + Algorithms, Relational Databases, Machine Learning, Probability, Applied Linear Algebra, Digital Systems + Microcomputers, Mathematical Proof, Robot Competition
- **Involvements:** Physics Teaching Assistant (2019-2022), Math Teaching Assistant (2017-2019), Orbit (Satellite Design Team) Software Developer (2017-2018), Orientation Leader (2017)

## WORK EXPERIENCE

**Meta – Software Engineer**

*Nov 2022, Menlo Park CA*

- Impacted by Meta's 2022 mass layoffs in the first week.

**Coursera – Software Engineer Intern**

*Sept – Dec 2021, Toronto ON*

- Increased accessibility, efficiency, and cohesiveness by over 30% while reducing errors and redundant work by migrating frontend **React.js** components to a novel design system, using **TypeScript** and **JavaScript**.
- Increased quality and robustness of **React.js** components by taking initiative to create **Jest** unit tests test suite.

**Later (Social Media Scheduler) – Software Engineer Intern**

*May – Aug 2021, Vancouver BC*

- Increased output accuracy by over 50% for Later's most used paid feature, used 50,000 times a week, by developing a scalable **Flask** and **Python** API, enabling novel machine learning models to be used for the 1st time.
- Eliminated 80% of API-related production failures by implementing automated API documentation and diffing.

**Intel – Software Engineer Intern**

*May – Dec 2020, Vancouver BC*

- Organized over 5 million data entries by developing a scalable telemetry query application using a **SQL** relational database, **Python** and **Flask** for the backend, and **JavaScript**, **HTML**, and **CSS** for the frontend.
- Reduced runtimes by 30% by taking initiative to optimize and automate Intel's **Python** workflows and libraries.
- Awarded over \$200 via the Intel Recognition Program for quality, completeness, and detail of work.

**TRIUMF (Particle Accelerator) – Researcher + Software Developer Intern**

*Jan – Apr 2019, Vancouver BC*

- Increased camera's frame rate by over 300%, using a software development kit and **C++** to implement dynamic memory allocation and multithreading – crucial for capturing the experiment's quickly decaying atoms.
- Corrected errors missed by the research team for over 6 years.
- Collaborated with multi-disciplinary teams to author a work term report now published on TRIUMF's website.

## TECHNICAL PROJECTS

 **3D-O (Web Application) – In Progress** (Personal Project)


*Dec 2020 – Present*

- Mission: to combat COVID19 by sharing my creative, lifelong hobby, 3d-origami, to promote social distancing.
- 3D project-modelling interface via Three.js; Paint-by-pixel interface via React.js, MobX State Tree.

 **Daily Dash (Mobile Application) – 1st / 28 Teams** (Course Project, Team of 4)

*Sept – Dec 2020*

- Mission: to empower users across all walks of life to achieve their life goals via regular, repeated efforts.
- Dynamic forms via TypeScript and React Native; Push notifications, user authentication via Google Firebase.

 **Machine Learning Robot Competition – 4th / 20 Teams** (Course Project, Partnership)

*Sept – Dec 2019*

- Mission: autonomous navigation via OpenCV, reinforcement learning, and image processing tools in Python.
- Identified alphanumeric characters with 99% accuracy with a convolutional neural network built with Keras.

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, C, C++, HTML, CSS, SQL, Java, Bash

**Technologies:** React.js, Node.js, Postgres, Docker, AWS, Datadog, Git, Linux, React Native, Express.js, MongoDB, Azure