

# LINA NGUYEN

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## EDUCATION

**University of British Columbia**

Sept 2016 – Apr 2022, Vancouver BC

**Engineering Physics, Computer Science Specialization – Bachelor of Applied Science (BASC)**

GPA: 3.7 / 4.0

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

## WORK EXPERIENCE

**TikTok – Software Engineer, Backend Infrastructure**

Feb 2023 – Present, Seattle WA

- Increased GMV of TikTok Shop by 30% (\$43M) by designing a technical solution to reduce top-seller onboarding time by 75%; Led a team of engineers in the implementation, using **Go**, **RocketMQ**, **ElasticSearch**, and **SQL**.
- Increased marketplace safety by 55% by leading, architecting, and prototyping technical software solutions for 10+ large-scale, cross-team projects in **Go**, prioritizing performance while considering tradeoffs and optimizations.
- Acted as the US point-of-contact for the Seller Violation Center by cultivating extensive and in-depth knowledge about the technical architecture, business strategy, and future roadmap of the core product.
- Led technical design reviews and standardized engineering processes, reducing on-call volume by 20%.

**Meta – Software Engineer**

Nov 2022, Menlo Park CA

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

**Coursera – Software Engineer (Internship)**

Aug – Dec 2021, Mountain View CA

- Increased software quality, robustness, and efficiency by over 30% while reducing errors and redundant work by migrating **React.js** components to a novel design system, using **TypeScript** and **JavaScript**.

**Later – Software Engineer, Machine Learning Infrastructure (Internship)**

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, Backend Infrastructure (Internship)**

May – Dec 2020, Vancouver BC

- Organized 6 million data entries by developing a scalable telemetry query application with **SQL**, **Python** and **Flask**.
- Reduced runtimes by 35% by taking initiative to upgrade, optimize, and automate Intel's **Python** workflows.
- Awarded via Intel's Recognition Program for quality, completeness, and detail of work.

**TRIUMF – Software Developer, Low Latency Programming (Internship)**

Jan – Apr 2019, Vancouver BC

- Optimized camera's performance by over 300%, using **C++** for dynamic memory allocation and multithreading.
- Discovered errors missed by the research team for over 6 years; collaborated with multi-disciplinary teams to fix.

## 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-time)

## TECHNICAL PROJECTS

 **3D-O (Algorithms, Web Application) – 200+ Users** (Personal Project)


Dec 2020 – Apr 2024

- Mission: to combat COVID19 by sharing my creative, lifelong hobby, 3d-origami, to promote social distancing.
- 3D project-modeling 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 habits.
- Dynamic forms via **React Native**, **MobX State Tree**; 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 in **Python**.
- Identified alphanumeric characters with 99% accuracy with a convolutional neural network built with **Keras**.

## TECHNICAL SKILLS

**Languages:** Go, Python, JavaScript, TypeScript, C, C++, SQL, Java

**Technologies:** Git, Linux, Node.js, Express.js, MySQL, MongoDB, AWS, Azure, Docker, RocketMQ, ElasticSearch