

LENA NGUYEN

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EDUCATION

Sep 2018 - May 2023

University of Waterloo | Systems Design Engineering, BSc. | GPA: 3.72

EXPERIENCE

Meta | Software Engineer

May 2022 - Aug 2022

- Worked in Reality Labs to construct a new voice assistant messaging experience on an Android device.
- Configured an AI model that determines appropriate response actions during messaging flow by collaborating with conversation designers, AI engineers, and language engineers to optimize user experience and performance.
- Developed software agents to handle requests from voice assistant using C++, Kotlin, and Java Native Interface.
- Proposed and executed migration of testing framework, making unit tests more concise and increasing test coverage.
- Leveraged knowledge in Android development, Kotlin, C++, Hack (PHP), coroutines, ADB debugging, latency testing.

Meta | Software Engineer

Aug 2021 - Dec 2021

- Created and shipped an AR Effect curation tool for the Instagram AR team using React, GraphQL, PHP.
- Conducted user interviews and designed UI for the new tool in Figma to improve UX of current workflow.
- Optimized the searching of millions of effects by configuring a search index and using debouncing with memoization.
- Safely deprecated a redundant entity type by implementing double-write pattern and creating a migration script.
- Leveraged knowledge in API design, fullstack web development, UI/UX, Hack (PHP), React, GraphQL.

StackAdapt | Software Engineer

Jan 2021 - Apr 2021

- 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 software performance monitoring system to collect, aggregate, and visualize hundreds of metrics per minute.
- Collaborated with designers and frontend engineers to standardize component library, increasing UI/UX consistency.
- Leveraged knowledge in Ruby on Rails, Docker, distributed systems, Elasticsearch, GraphQL, React, Redux.

Shopify | Software Engineer

May 2020 - Aug 2020

- Shipped SAML authentication feature to 150 000+ users and met adoption KPIs in the first month using Ruby on Rails.
- Researched and prototyped an attribute-based access control system to support more granular and flexible permissions.
- Designed a caching system with Redis to reduce network calls between three different services.
- Utilized Ruby on Rails, React, GraphQL, Docker, Redis.

Bonfire | Fullstack Developer

Sep 2019 - Dec 2019

- Leveraged AWS SNS, SQS and Lambdas to persist user account changes to different database regions.
- Automated syncing of thousands of projects to maintain data consistency by creating a SQL script executed via cron job.
- Leveraged knowledge in fullstack web development, AWS microservices, SQL, Node.js, React.

PROJECTS

UW Blueprint (Club) | Project Lead

Aug 2021 - May 2022

- Led a team of 7 developers to build a volunteer management system for non-profit client reaching 100+ users.
- Translated product specs into technical requirements (e.g. task breakdown, implementation details, acceptance criteria).
- Collaborated with stakeholders to successfully build a product within allotted budget and timeline constraints.
- Utilized Node.js, TypeScript, GraphQL, React, PostgreSQL and exercised skills in code reviewing, fullstack development.

Llettonna (Club) | Project Lead

May 2020 - Aug 2020

- Led backend team at a non-profit to create a behavioral therapy app for new moms using Node.js, AWS, PostgreSQL.
- Determined a feasible MVP, architected the backend, and completed API development in 4 months.

SKILLS

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