

# Raymond Luo

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## EDUCATION

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### New York University

New York, NY

*BA in Computer Science & Media Studies, Minor in Mathematics; Magna Cum Laude (3.92) Sep. 2019 – May 2023*

## EXPERIENCE

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### Spectrum Labs

Jan. 2023 – May 2023

*Part-time Software Engineer Intern, Guardian Moderation Queue*

*Remote, NY*

- Implemented **e2e testing** with **Playwright**, saving minutes on manual testing, and integrated it into **CircleCI** for **CI/CD** with **TypeScript**, **Docker**
- Integrated with **B2B** software along with feature flags for tracking usage analytics using **TypeScript**

### Meta (Facebook)

May 2022 – Aug. 2022

*Software Engineer Intern, Dating Ranking ENG*

*New York, NY*

- Designed and implemented new candidate retrieval funnel for developer efficiency and scalability, also **reducing latency by 35%**, using **Hack**
- Enabled match quality improvements and experimentation opportunities by injecting new features into ranking with **Hack** and **C++**

### Spectrum Labs

Jan. 2022 – May 2022

*Software Engineer Intern, Guardian Moderation Queue*

*Remote, NY*

- Implemented role-based access control handled in **TypeScript** and **Vue** frontend and **Scala** backend with **gRPC**
- Improved internal efficiency and scalability by developing two features which **reduced turn-around-time by 98% (10 minutes → 10 seconds)**
- Implemented quality-of-life features which **saved users 10 minutes** per moderation session

### Facebook

June 2021 – Aug. 2021

*Software Engineer Intern, Cloud Gaming Infra*

*Remote, NY*

- Created video-based analysis tool which **drove engagement up 10%** in third party developer's game, using **Hack**, **JavaScript**, and **React**
- Optimized clustering algorithm to avoid memory issues and **process 12x the volume of data**
- Experimented on computer vision script to **increase sample size of datasets by 20%**

### NYU Courant Institute of Mathematical Sciences

Sep. 2020 – Jan. 2021

*Data Structures Tutor*

*Remote, NY*

- Tutored students 10 hours/week in Data Structures (Java), assisting with homework & test preparation

### Social27 Inc.

May 2020 – Aug. 2020

*Data & AI Intern*

*Remote, WA*

- Implemented latent feature matrix factorization ML model to address data sparsity in recommender system with **LightFM**
- Created client data reports by writing **Python** script to scrape, clean, and visualize livestream metrics
- Owned coordination between three companies to produce 3000+ attendee virtual event as PM+CSM

## PROJECTS

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### Doggle: A Wasm Game | *Rust, Wasm, HTML, CSS, JavaScript*

June 2022

- Created Wordle-style dog-themed browser game with images and dynamic word lengths

### Flower Shop: A Discord Ticketing Bot | *Python*

February 2022

- Created a Discord bot with friendly interface and UX for users to open tickets to speak with moderators
- Deployed bot to Heroku to run 24/7 for 5k+ member NYU Discord

## TECHNICAL SKILLS

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**Languages:** Python, Scala, Rust, Java, Hack/PHP, C, SQL

**Frameworks:** Flask, TensorFlow, Selenium, Nuxt

**Frontend:** HTML, CSS, JavaScript, TypeScript, React, Vue

**Developer Tools:** git, mercurial, bash, Docker, CircleCI,  $\text{\LaTeX}$