Raymond **Luo**

SOFTWARE ENGINEER

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Education

New York University *New York, NY*

B.A. IN COMPUTER SCIENCE AND MEDIA STUDIES *Sep. 2019 - May. 2023*

- 3.91 GPA - Dean's List
- **Coursework**: Algorithms, Data Structures, Computer Systems Organization, Client-side Internet Technologies, Critical Approaches to Information Visualization, Computer Graphics, Social Networks, Probability & Statistics; **Planned**: Machine Learning, Computer Networking

Experience

Meta (Facebook) *New York, NY*

SOFTWARE ENGINEER INTERN, DATING RANKING ENG *May 2022 - Aug. 2022*

- 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 *San Francisco, CA*

SOFTWARE ENGINEER INTERN, GUARDIAN MODERATION QUEUE *Jan. 2022 - May 2022*

- Implemented role-based access control handled in **TypeScript** and **Vue** frontend and **Scala** backend
- 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 up to **10 minutes** per moderation session

Facebook *Menlo Park, CA*

SOFTWARE ENGINEER INTERN, CLOUD GAMING INFRA *Jun. 2021 - Aug. 2021*

- 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 handle **12x** the volume of data
- Experimented on computer vision script to increase sample size of datasets by **20%**

NYU Courant Institute of Mathematical Sciences *New York, NY*

DATA STRUCTURES TUTOR *Sep. 2020 - Jan. 2021*

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

Social27 Inc. *Redmond, WA*

DATA & AI INTERN *May 2020 - Aug. 2020*

- 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

Doggle: A Wasm Game *erhuve.github.io/doggle_wasm/*

RUST, WASM, HTML, CSS, JAVASCRIPT *Jun. 2022*

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

Flower Shop: A Discord Ticketing Bot */erhuve/flowershop*

PYTHON *Feb. 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

Mustard: Find the Right College For You *mustard-colleges.herokuapp.com*

PYTHON, FLASK, SELENIUM, HTML, CSS, JAVASCRIPT, FIREBASE *Aug. 2020*

- Created algorithm to give personalized college recommendations to users based on several parameters
- Wrote script to scrape and clean college data metrics which was then stored in Google Firebase
- Designed and deployed web app with Flask back-end to Heroku

Skills

Languages	Python, Scala, Rust, Java, Hack/PHP, C, SQL
Frameworks	Flask, TensorFlow, Selenium, Nuxt
Front-end	HTML, CSS, JavaScript, TypeScript, React, Vue
Tools	git, mercurial, bash, LaTeX