

# Ryan Vuong

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## EDUCATION

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### University of California - Los Angeles

*B.S. Computer Science*

GPA: 3.76

**Relevant Coursework:** Operating Systems, Data Structures, Networks, Machine Learning, Algorithms and Complexity, Data Science, Databases, AI, NLP, Programming Languages

Los Angeles, CA

*Sep. 2019 – June 2023*

## EXPERIENCE

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### Software Development Engineer Intern

June 2022 – September 2022

*Amazon Web Services*

*Seattle, WA*

- Optimized full IPv4 scan of the internet, increasing the speed by 800%.
- Analyzed hundreds of gigabytes of IPv4 scans using PySpark with [AWS EMR](#) to filter unresponsive IPs.
- Discovered extraneous EC2 instances and removed them, decreasing costs by 60%.

## PROJECTS

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### nEARby | *Dart, Flutter*

Fall 2021

- Developed a [full-stack mobile application](#) using [Flutter](#) which connects nearby users together using Spotify history
- Implemented [location tracking functionality](#) and linked the data to a [MongoDB](#) database.
- Connected user profiles from Spotify utilizing the [Spotify API](#); created internal user profiles within the app.
- Wrote 20+ [unit tests](#) and [integration tests](#) with Flutter.

### Toasty | *C#, Git, Unity*

Winter 2022

- Lead a team of 7 new developers to create and publish a game.
- Implemented 2D movement functionality, managed GitHub repository, resolved merge conflicts.
- Utilized object-oriented principles, [inheritance](#), and [polymorphism](#) to develop player and enemies.

### Nearby Locations | *Python*

Winter 2021

- Developed a [CLI application](#) that accepts location coordinates and sends it to a server I set up which utilizes the [Google Places API](#) to provide recommendations and details of places close to that location.
- Created server and client with [Python's asyncio library](#) to communicate and store user data.

## ORGANIZATIONS

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### Tutorials Chair

March 2021 – Present

*Association of Computing Machinery*

*UCLA*

- Create and lead tutorials in Unity and scripting in C#.
- Have lead 6 tutorials with 100+ total participants in the past year.

### President

April 2021 – Present

*Los Angeles Mentorship Program*

*UCLA*

- Lead, organize, and collaborate with 20+ tutors to volunteer at underprivileged high schools in LA.
- Teach and advise 70+ students across 3 different high schools.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, SQL (Postgres), Java, JavaScript, HTML, CSS, Bash, Lisp, Dart

**Technologies/Frameworks:** Flutter, JUnit, AWS, Linux

**Developer Tools:** Git, Docker, VS Code, Visual Studio, GDB

**Libraries:** pandas, NumPy, PySpark, Matplotlib, PyTorch, sklearn

## HONORS & AWARDS

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**Regents Scholar:** Merit scholarship granted to the top 1.5% of UCLA applicants

**Upsilon Pi Epsilon:** Honor society at UCLA for computer science majors in the top 1/3 of their class.