

Raymond Zou

(US Citizen)



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Education

University of Maryland

B.S. Computer Science and Mathematics, GPA: 3.4

College Park, MD

Aug. 2018 - May 2022

- **Gemstone Honors Program:** a 4-year undergraduate research program in the Honors College
- **Relevant Coursework:** Advanced Algorithms, Advanced Data Structures, Multithreading/Concurrency, Natural Language Processing, Data Science, Probability Theory, Applied Probability, Linear Algebra, Calculus III

Skills

- **Languages:** Java, Python, JavaScript, Go, Ruby, C++, SQL, HTML/CSS, MATLAB
- **Technologies:** Git, AWS (DynamoDB, EC2, SNS, etc.), Flask, MongoDB, NumPy, Pandas, Node.js, Fetch

Experience

Apple

Software Engineer Intern | Apple Media Products Localization

Cupertino, CA

May 2021 - Aug. 2021

- Incoming Summer 2021

Amazon

Software Engineer Intern | Amazon Fulfillment Technology

Seattle, WA

June 2020 - Aug. 2020

- Developed and deployed Hazmat label validating software feature preventing over 2.9 million packages from shipping without federally required labels per year in Amazon Fulfillment Centers
- Leveraged internal APIs to refactor a diagnostic dashboard for AutoSLAM labeling machines
- Fixed package processing software bug that saves \$4.3 million per year in concession costs
- Integrated AWS SNS messaging into back-end microservice interactions to aggregate defect codes for streamlined problem source identification

Federal Data Systems

Software Engineer Intern | Cyber Operations Development

Columbia, MD

June 2019 - Aug. 2019

- Designed and developed full-stack research tool using Hexagonal architecture to simplify evaluating cyber-security due diligence for company consulting and risk-assessment
- Implemented back-end logic and RESTful API for the application using Go, JavaScript, and SQLite
- Developed grading/scoring algorithm to assess security protocols and federal compliance

Activities

University of Maryland

Undergraduate Research Assistant

College Park, MD

May 2019 - Present

- Utilized 3dVoxResNet machine learning model architecture implemented in PyTorch for structural MRI multi-class classification of psychiatric illnesses based on morphometric features
- Integrated dataset adaptability for multiple standardized neuroimaging directory structures and image types including BIDS, DICOM, and NiftI

Bitcamp

Logistics Organizer

College Park, MD

Nov. 2019 - Present

- Largest Spring collegiate hackathon in the US hosting over 1,500 hackers and volunteers
- Recruited over 200 volunteers and mentors, organized multiple workshops, and delegated tasks for volunteers

Projects

NYC Airbnb Price Prediction

An analysis of NYC Airbnb listings using statistical methods like hypothesis testing, and predicting listing prices using Linear, Ridge, and Elastic-Net regression models. (Python, sklearn, NumPy)

Jeopardy Question Search

A full-stack web app that queries through all aired Jeopardy questions based on trivia categories and air dates. Capital One 2020 Software Eng. Summit winning submission. (JavaScript, Fetch API, jService API, HTML/CSS)

Road Lane Detection

A program that can identify road lane lines in an image or video applying basic concepts of computer vision: Gaussian blur, Canny edge detection, and Hough transform. (Python, OpenCV, NumPy, Matplotlib)