

Eric Zhong

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Education

CORNELL UNIVERSITY

Ithaca, NY

Bachelor of Arts in Computer Science

Relevant Coursework: Machine Learning, Artificial Intelligence, Databases, Statistics and Probability, Linear Algebra, Discrete Math, Object-Oriented Programming, Biological Statistics II, Multivariable Calculus, Analysis of Algorithms, Networks

Experience

ENVIRONMENTAL DATA AND GOVERNANCE INITIATIVE

Ithaca, NY

Software Development Engineer

December 2022-Present

- Compose report cards for all 435 congressional districts to expose environmental violations and increase accountability.
- Develop statistical code to analyze and visualize the extent of environmental violations by the oil and gas industries.
- Web scrape Census data and use Numpy and AI to track the trends of environmental violations committed by district.
- Utilized: Python, Pandas, Numpy, SQL, Git, Jupyter Notebooks, Conda

AMAZON WEB SERVICES

Seattle, WA

Software Development Engineer Intern

May 2023-August 2023

- Analyze Deep Learning Containers to transport virtual environments and promote development and testing efficiency.
- Standardize availability canary system that maintains docker image, tags, and SHA consistency within server regions.
- Design and implement a canary backend scheme to continuously run code tests while reducing the server cost by 250%.
- Utilized: Python, JavaScript, AWS Lambda, AWS EC2, AWS S3, Docker

Amazon Future Engineer Intern

May 2022-August 2022

- Assembled Amazon Web Service (AWS) computer resource rental system and remodel code testing scheme.
- Programmed Alexa application to use humor and therapy techniques to promote mindfulness within the workplace.
- Reorganized test request system to prevent resource allocation conflicts across teams and boost efficiency by 37%.
- Utilized: Python, AWS Lambda, AWS DynamoDB, AWS EC2, AWS SQS

XENOPHOBIA METER PROJECT

Ithaca, NY

Software Development Engineer

August 2022-January 2023

- Researched xenophobia in history and collected Islamophobic tweets from political parties for preprocessing and analysis.
- Enacted Google API to translate tweets to English while maintaining syntactic integrity and meaning authenticity.
- Systematized xenophobia rating system and gauged racism in a tweet, increasing accuracy rate from 43% to 97%.
- Utilized: Jupyter Notebooks, Python, Conda, Numpy, Google Translate API, Git

Projects

CORNELL AFFECT & COGNITION LAB

Ithaca, NY

Full-Stack Engineer

August 2023-Present

- Design theEmbody app that maps interoceptive feelings to parts of the body to study the bodily effects of impactful words.
- Establish frontend and backend for theEmbody app, including accessibility features for people with motor impairments.
- Streamline data collection for researchers and automate information processing and data visualizations.
- Utilized: MongoDB, Express, React, Node.js, Postman, Python

POOL VENMO EXTENSION

Ithaca, NY

Full-Stack Engineer

August 2023-Present

- Conducted 28 user interviews with Venmo users to pinpoint features that clients would want to use.
- Construct frontend and backend for Split to allow users to pool money together for a common cause before transfer.
- Streamline requesting and paying multiple people at the same time without needing to manually compute the costs.
- Utilized: MongoDB, Express, React, Node.js, Postman, Python

Skills & Interests

Skills: Python, Java, OCaml, C, JavaScript, AWS Lambda, AWS DynamoDB, AWS EC2, AWS SQS, Pandas, Numpy, Docker, Canaries

Languages: Mandarin (Fluent), Cantonese (Conversational), Spanish (Conversational)

Interests: Escape rooms, brain teasers, puzzle games, beach volleyball, logic riddles, mahjong