

Eric Zhong

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Education

CORNELL UNIVERSITY

Ithaca, NY

Bachelor of Arts in Computer Science, Minor in Psychology

Relevant Coursework: Machine Learning, Artificial Intelligence, Analysis of Algorithms, Databases, Statistics and Probability, Linear Algebra, Discrete Math, Object-Oriented Programming, Data Structures, Functional Programming, Networks

Experience

AMAZON WEB SERVICES

Seattle, WA

Deep Learning Software Development Engineer Intern

May 2024-Present

- Streamline access of Deep Learning AMI strings, allowing AWS customers to easily access information without API calls.
- Validate Deep Learning AMI strings across all Amazon Web Service regions to ensure AMI consistency across all areas.
- Design an SNS and Lambda backend that displays Deep Learning AWS strings automatically for the AWS Asimov team.
- Utilized: Python, AWS Lambda, AWS SNS, AWS S3,

Deep Learning Software Development Engineer Intern

May 2023-August 2023

- Analyzed Deep Learning Containers to transport virtual environments and promote development and testing efficiency.
- Standardized availability canary system that maintains docker image, tags, and SHA consistency within server regions.
- Implemented a canary backend scheme to continuously run code tests while reducing the server cost by 25%.
- Utilized: Python, JavaScript, AWS Lambda, AWS EC2, AWS S3, Docker

Software Development 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

ENVIRONMENTAL DATA AND GOVERNANCE INITIATIVE

Ithaca, NY

Software Development Engineer

December 2022-January 2024

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

XENOPHOBIA METER PROJECT

Ithaca, NY

Artificial Intelligence Software Development Engineer

August 2022-January 2023

- Researched xenophobia in history and collected Islamophobic tweets from political parties for preprocessing and analysis.
- Enacted APIs to translate tweets to English while maintaining syntactic integrity and meaning authenticity for training.
- 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

ARTIFICIAL INTELLIGENCE OBJECTIVE PAIN DETECTION APP

Ithaca, NY

Product Manager and Technical Lead

May 2024-Present

- Devise onboarding, sprints, and milestones to familiarize developers with using AI and sentiment analysis.
- Construct frontend and backend for hospital patients to monitor and quantify pain levels to reduce pain perception bias.
- Coordinate with professors and Post Doctoral students to track app development progress and ensure product quality.
- Utilized: Figma, MongoDB, Express, React, Node.js, Postman, Python

HUMAN SENSATION MAPPING EMBODY APP

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: Figma, MongoDB, Express, React, Node.js, Postman, Python