

Eric J. Zhong

ejz25@cornell.edu | Ithaca, NY 14850 | (954)-880-4228 | www.linkedin.com/in/ericzhong1 | ezhong0211.github.io

EDUCATION

CORNELL UNIVERSITY GPA: 3.43

Ithaca, NY

BA in Computer Science, Minor in Psychology

August 2021-December 2024

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

PROFESSIONAL EXPERIENCE

HACKATHON LEAD & SOFTWARE DEVELOPER

Ithaca, NY

Hack4Impact

September 2022-December 2024

- Deploy 2000+ lines of code for nonprofit organizations to help automate services and workflows aimed at social good.
- Lead weekly work sessions and team meetings to discuss blockers and streamline development and hackathon planning.
- Collaborate with Cornell's Social Impact Chair and Dean of Faculty to obtain hackathon sponsorship and funding.
- Utilized: Python, Pandas, Numpy, Colab, SQL

DEEP LEARNING SOFTWARE DEVELOPMENT ENGINEER INTERN

Seattle, WA

Amazon Web Services

May 2024-Aug 2024

- Streamline access of Deep Learning AMI strings, allowing AWS customers to easily access information without API calls.
- 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

ARTIFICIAL INTELLIGENCE SOFTWARE DEVELOPMENT ENGINEER INTERN

Seattle, WA

Amazon Web Services

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

DATA SCIENTIST & SOFTWARE DEVELOPMENT ENGINEER

Ithaca, NY

Environmental Data and Governance Initiative

December 2022-January 2024

- 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

SOFTWARE DEVELOPMENT ENGINEER

Ithaca, NY

Xenophobia Meter Project

August 2022-January 2023

- 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 & RESEARCH

RESEARCH PRODUCT MANAGER & TECHNICAL LEAD FOR AI OBJECTIVE PAIN DETECTION

Ithaca, NY

[Cornell Affect and Cognition Lab](#)

May 2024-May 2025

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

RESEARCH ASSISTANT & MACHINE LEARNING ENGINEER

Remote

[University of Pennsylvania Computational Social Science Lab](#)

July 2022-January 2023

- Created the Team Communication Toolkit, a Python API that analyzes team performance objectively with Emily Hu Phd.
- Leveraged APIs like Pandas and Numpy to analyze large datasets to determine factors contributing to team collaboration.
- Utilized: Python, Git, Pandas, Numpy

ACTIVITIES

Tapia Conference '24, Putnam Mathematical Competition, Amazon Future Engineer Ambassador, Hack4Impact Social Director