

## Eric J. Zhong

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### EDUCATION

**CORNELL UNIVERSITY GPA: 3.5**

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

**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

**AMAZON FUTURE ENGINEER & SOFTWARE DEVELOPMENT ENGINEER INTERN**

Seattle, WA

*Amazon Web Services*

May 2022-August 2022

- Assembled Amazon Web Service (AWS) computer resource rental system and remodel code testing scheme.
- 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

### PROJECTS & RESEARCH

**PRODUCT MANAGER & TECHNICAL LEAD FOR ARTIFICIAL INTELLIGENCE OBJECTIVE PAIN DETECTION**

Ithaca, NY

*Cornell Affect and Cognition Lab*

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

**QUANTITATIVE DEVELOPER**

Remote

*IMC Prosperity Trading Competition*

April 2024

- Leveraged Python APIs like Pandas and Numpy and machine learning to analyze large datasets and predict the market.
- Utilized: Python, Pandas, Numpy, Git

**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.
- Utilized: Python, Git