

# Eric J. Zhong

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## EDUCATION

**CORNELL UNIVERSITY GPA: 3.41/4.3**

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

- Developed 2000+ lines of code to automate workflows for social impact driven nonprofits, reducing manual tasks by 50%.
- Led weekly work sessions to resolve blockers and streamline hackathon planning, boosting project productivity by 30%.
- Secured sponsorship with Cornell's Social Impact Chair, expanding hackathon participation across seven Cornell colleges.
- Utilized: Python, Pandas, Numpy, Colab, SQL, MERN, MongoDB

**DEEP LEARNING SOFTWARE DEVELOPMENT ENGINEER INTERN**

Seattle, WA

*Amazon Web Services*

May 2024-August 2024

- Streamlined DLAMI access, enabling AWS customers to access information without code, reducing retrieval time by 40%.
- Designed and deployed an Amazon internal tool that displays internal information automatically for the AWS Asimov team.
- Utilized: Python, AWS Lambda, AWS SNS, AWS S3, TypeScript

**DATA SCIENTIST & SOFTWARE DEVELOPMENT ENGINEER**

Ithaca, NY

*Environmental Data and Governance Initiative*

December 2022-January 2024

- Developed statistical code to analyze and visualize EPA environmental violations to pressure lawmakers to enact change.
- Webscraped Census data and automated environmental violation tracking, boosting AI model accuracy from 47% to 98%.
- Utilized: Python, Pandas, Numpy, SQL, Git, Jupyter Notebooks, Conda

**ARTIFICIAL INTELLIGENCE SOFTWARE DEVELOPMENT ENGINEER INTERN**

Seattle, WA

*Amazon Web Services*

May 2023-August 2023

- Analyzed DLCs to streamline virtual environment transport, boosting development and testing efficiency by 20%.
- 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**

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 Math Competition '24, Amazon Future Engineer Scholarship Winner, Hack4Impact Social Lead