Eric J. Zhong

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EDUCATION

CORNELL UNIVERSITY   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 & FULL STACK 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.
- <u>Utilized</u>: Python, Pandas, Numpy, Colab, SQL, MongoDB, Express, React, Node.js

DEEP LEARNING SOFTWARE DEVELOPMENT ENGINEER INTERN   Seattle, WA
Amazon Web Services   May 2024-August 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.
- <u>Utilized</u>: 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%.
- <u>Utilized</u>: 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.
- <u>Utilized</u>: 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%.
- <u>Utilized</u>: 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.
- <u>Utilized</u>: Python, AWS Lambda, AWS DynamoDB, AWS EC2, AWS SQS

PROJECTS & RESEARCH

FULL STACK DEVELOPER & 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.
- <u>Utilized</u>: Figma, MongoDB, Express, React, Node.js, Express, React, Node.js, Postman, Python

ACTIVITIES

Tapia Conference '24, Putnam Math Competition '24, Amazon Future Engineer Scholar, Hack4Impact Social Director