

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, AI, Analysis of Algorithms, Statistics and Probability, Databases, Linear Algebra, Discrete Structures, OOP and Data Structures, Functional Programming, Systems Programming

PROFESSIONAL EXPERIENCE

HACKATHON LEAD & FULL STACK DEVELOPER

Ithaca, NY

Cornell 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, 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.
- 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.
- Utilized: 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-December 2024

- 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, Express, React, Node.js, Postman, Python, Git

SKILLS & INTERESTS

Technical: Python, Java, JavaScript, TypeScript, OCaml, C++, MERN, Django, Flask, AWS, SQL, HTML, CSS, Kubernetes, R

Interests: Social Impact, Mental Health, Digital Accessibility, Consumer Behavior, DEI