Ivan Zhang

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EDUCATION

Harvard College (Cambridge, MA)   September 2019 – Present
B.S. Candidate in Computer Science and Statistics
Relevant Coursework: Theoretical Linear Algebra and Real Analysis, Data Structures and Algorithms, Machine Learning, Systems Programming and Machine Organization, Computing Foundations for Computational Science (Graduate), Distributed Computing (Graduate), Big Data Systems (Graduate), Computational Biology (Graduate)
Stuyvesant High School (New York, NY)   September 2015 – June 2019
President of CS Dojo, President of StuyHacks, VP of ARISTA for Web Dev, Part time at Charles Juntikka & Associates

WORK EXPERIENCE

General Catalyst (Open-source Developer)   May 2023 – December 2023
- Developed new data testing and evaluation frameworks with the new Customer Value Fund
- Implemented new risk and fund exposure models for the $X billion fund alongside the team of < 10 members
- Released Panda Patrol, a Python data testing and quality framework with 18k+ downloads

ZettaBlock (Software Engineer, 8VC Fellowship)   May 2022 – September 2022
- Design, quickly iterate, and push major features like authentication and access control to production
- Worked closely with founding team to rapidly build and deploy completely revamped UI and critical features
- Researched and designed Web3-related features to further supplement value proposition

Various Startups (Engineer)   February 2022 – May 2022
- Developed full-stack, mobile, and Web3 applications for various seed stage startups while attending college
- Worked directly with founders to quickly iterate on products based off customer feedback
- More specific details available upon request

Amazon (Software Engineer)   June 2020 – August 2020, May 2021 – July 2021
- Project (2020): Improve transparency for sellers and their rankings on Amazon
  - Revamped seller dashboard to incorporate seller data points (i.e., customer satisfaction, on time delivery, etc.)
  - Set up pipeline for data, errors loggers, and connection with the customer service portal
- Project (2021): Incorporate Slack with Amazon's various internal Q&A sites
  - Improved response times of users which enabled faster answers and improved productivity
  - Pushed feature to production, collected error metrics and user feedback, and present results to managers

Independent Projects

Training Data is All You Need   January 2024 – Current
- Grant from Emergent Ventures
- Conduct research on how training data influences model outputs and how we can evaluate this training data
- Create techniques to analyze training data and then use this analysis to better align AI models

Simulating the Transition to Simple Multicellularity   February 2023 – May 2023
- Research for Harvard's Computation Biology class with Professor Valiant
- Simulated how multicellularity could've arisen from unicellular organisms via a model that relies on clustering, information sharing, and collaboration between organisms

athena (Z Fellows)   April 2022 – May 2022
- Create a platform where questions and answers are incentivized with tokens like a knowledge marketplace
- Scraped Web3 Discord group chats to get initial questions and answers for our platform
- Created Discord bot to test concept and to allow for quick iterations on features that users wanted

Datacenter Fabric Simulator   May 2020 – June 2020
https://ivzhang2.github.io/simulating-datacenter-fabrics/
- Created C++ data fabric simulator to make it easier to identify network issues like bottlenecks
- Optimized simulator through parallelization as compared to the usual serial simulators
- Collaborated with graduate students from Harvard's engineering school (SEAS)

SKILLS AND INTERESTS

Mobile Development: React Native, Swift, and SwiftUI
Web Development: Python (including Flask and Django), JavaScript (including Node.js, Express, NextJS, React, Mocha, and Chai), Typescript, Java (including Spring), Ruby on Rails, HTML, and CSS
Blockchain: Solidity and Rust
Other Technologies: Low level programming (C and C++), AWS, Firebase, Google Cloud, Twilio, JSON Web Tokens, and Stripe
Design: Adobe Suite and Figma
Interests: Running, reading nonfiction, biking, watching mind-bending movies like Interstellar, examining works of art, design, and travel