Justine Jang

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EDUCATION

Massachusetts Institute of Technology   **Cambridge, MA**
B.S. in Math and Computer Science   **SEP 2013 - JUN 2017**
GPA: 4.6 / 5.0
Coursework: Computer and Network Security, Advanced Natural Language Processing, Artificial Intelligence, Design and Analysis of Algorithms, Elements of Software Construction, Introduction to Algorithms, Real Analysis, Introduction to Topology, Computational Structures, Computer Systems Engineering

JOB EXPERIENCE

Indeed (Demographic Data Engineering Team)   **Remote**
Software Engineer   **JUN 2022 - NOV 2024**
❖ Team aimed to collect, securely store, and responsibly use 20+ million rows of jobseeker demographic data for social impact purposes at the largest job search platform in the US (www.indeed.com)
❖ Designed and collaborated with other teams to implement a consent and revoke consent workflow so that a jobseeker filling out EEO data can choose to share that data with us
❖ Supported and delivered data for 5+ social impact-focused teams, enabled the research of job application drop-off rates broken down by gender and race and a study into the effectiveness of a fair chance hiring filter for jobseekers with criminal records
❖ Maintenance support and feature development on the whole stack: frontend (React, Typescript), backend (PostgresQL, Aurora DB, Spring Boot, Java), infrastructure (terraform, gradle, AWS cloud), and use case support (Spark SQL, scala)
❖ Actively participated in the Women & Gender Minority Programming group, Core AI Reading Group, Demographic Data reading group and the semesterly hackathons
❖ Initiated screening of Netflix documentary Fourteen to contextualize and humanize the jobseekers with criminal records that our work was helping

Cerebras Systems (Machine Learning Applications Team)   **Los Altos, CA**
Machine Learning Engineer   **MAR 2019 - AUG 2021**
❖ Startup pioneering wafer-scale chip production and novel AI accelerator system with Tensorflow integration
❖ Built clean, parameterizable Tensorflow reference models integrated into the stack, including Seq2Seq and GNMT. Supported execution to demonstrate 50+ times speedup over GPU.
❖ Designed and maintained a modelzoo: contributed to design of API for layers / components shared between models.
❖ Provided real-time support for external demos with customers, contributing to multi-million dollar deals.
❖ Experimented and contributed to simulator that runs Pytorch models with novel numerical formats

Susquehanna International Group (Index Desk)   **Philadelphia, PA**
Trading Intern   **JUN 2017 - AUG 2017**
- ❖ Assisted and analyzed million-dollar trades of Index Options and ETFs at quant trading firm
- ❖ Automated traders' daily tasks with Python (pandas) scripts to save hours per week and increase accuracy
- ❖ Helped traders manage risk by calculating & visualizing highly correlated symbols (Excel VBA & matplotlib)

Democrat Super PAC (Engineering Team)   **Remote**
Data Scientist   **OCT 2020 - NOV 2020**
- ❖ Volunteered with Super PAC funding TV advertisements for the 2020 elections
- ❖ Applied NLP techniques and collaborated with other data scientists to design an API for non-technical users to understand an overview of survey responses to the different ads

OTHER EXPERIENCES

Harvard Law School CopyrightX Online Course   **Remote**
Student   **MAR 2025 - MAY 2025**
- ❖ 12 week course on copyright taught by Professor William T. Fischer
- ❖ Each week consisted of 3 hours of lectures, 5-10 hours of reading, and 1 hour of recitation with a teaching assistant. The course concluded with a final exam.

Petey Greene Program   **New York, NY**
Volunteer Tutor   **JUN 2022 - Current**
- ❖ Educational justice nonprofit that matches volunteers with
- ❖ Technology tutor for the John Jay College Navigator program 2024 Spring semester
- ❖ Homework hour tutor for Exalt Program, a weekly program for court-impacted youth to bring any high school or college level homework
- ❖ Individual tutoring in programming (Intro to Python) and Algebra II

Other activities
- ❖ Redwood City Orchestra (Fall 2019-Covid 2020)
- ❖ Harvard-MIT Math Tournament Registration Director (2014-2015)
- ❖ MIT Symphony Orchestra (2014-2016)

PROJECTS

"Change My View!"
Advanced Natural Language Processing (6.806) Final Project   **DEC 2015**
- ❖ Led a team of 3 to research, write a paper and give a poster presentation on NLP methods applied to Change My View (a subreddit devoted to persuasive debates)
- ❖ Wrote a predictor for which post would change someone's mind, 33% increase in accuracy over baseline