






Peter Zhang

 petez@berkeley.edu  15429 Indianola Drive, Derwood, MD 20855, USA (240) 994-2204  peterzhang.info  GitHub: petezh  LinkedIn: pjz

Education

University of California, Berkeley

Berkeley, CA

Computer Science, Economics, & Operations Research B.A. 3.98 GPA

2020–2023

Coursework: Data Structures/Algorithms, Data Science, Artificial Intelligence, Discrete Math, Statistics/Probability

Activities: Voyager Consulting, Debate Society of Berkeley, Computer Science Mentors, Daily Californian, UPE

Experience

Amazon Web Services

Arlington, VA

Software Development Engineer Intern

Jun 2021–Aug 2021

- Design and develop a scalable, serverless tool to notify customers of service issues with a flexible API and CLI
- Rapidly test and iterate in an agile workflow, using Java/Typescript and AWS services (CDK/SQS/Lambda)

Center for Effective Global Action

Berkeley, CA

Research Apprentice

Jan 2021–May 2021

- To support Open Policy Analysis, developed an R Shiny/markdown showcase and drafted a set of guidelines.
- Working with authors, assessed and improved reproducibility for 5 papers using R, Stata, Python, and \LaTeX .

Voyager Consulting

Berkeley, CA

Volvo Cars Consultant

Jan 2021–May 2021

- Compiled and analyzed 28 existing and novel on-demand car features based on industry/consumer research.
- Surveyed 2,000+ consumers with binary-search Gabor Granger technique to inform R Shiny breakeven model.

Monster Energy Consultant

Sep 2020–Dec 2020

- Quantified consumer interest in 55 flavors by analyzing industry reports, social media, and Google Trends data.
- Forecasted demand from 4.5M rows of CPG sales data to suggest products, 3 of which were implemented.

National Cancer Institute

Rockville, MD

Research Assistant

Jul 2019–Apr 2020

- Scraped/reformatted 1+ billion gene expression data from cancer drug trials for efficient, on-demand user query.
- Developed R Shiny graphing/analysis app with one-click, Electron app, published first-author in Bioinformatics.

National Institute of Standards and Technology

Gaithersburg, MD

Economics Research Intern

May 2020–Sep 2020

- Annotated 57 papers on resilience planning to assess the role of co-benefits in recent benefit-cost analysis.
- Published user manual/case study for Edge\$, a decision-making software app to help community leaders.

Projects

Debate Analysis

Sep 2020–Feb 2021

- Scraped 200k+ outcomes from debate tournaments and 5k+ online debate cases with a Bsoup/Selenium crawler.
- Published articles detailing the impact of transitioning to online debate and rates of public case disclosure.


Partisanship & COVID


Dec 2019–Apr 2021

- Compiled a novel COVID-19 dataset using Census, NYT, JHU, DOT, and election data for 3,111 counties
- Published article detailing the relationship between political affiliation and COVID-19 via multiple regression

Skills

 **Expert:** Python (Pandas), R, Java, Latex, Git/Terminal, VSCode/IntelliJ, Data Analysis/Visualization

 **Proficient:** C, SQL, HTML (Liquid), CSS, JavaScript (React), Azure/AWS, WordPress, Machine Learning

 **Novice** Swift, Android Studio, Typescript, MATLAB (CVX), Stata, Electron, AutoDesk Inventor

Awards

UC Berkeley Leadership Award; 2x Recipient

Jul 2020, Aug 2021

DSS x NIB Datathon for Social Good, 1st Place

Nov 2021

Venture Capital Investment Competition; National Finalist

Apr 2021

National Speech and Debate Tournament; 6th Place

Jun 2020