Peter Zhang

🏠 15429 Indianola Drive, Derwood, MD 20855, USA
📧 petez@berkeley.edu ☎ (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

Venture Capital Investment Competition; National Finalist	Apr 2021
UC Berkeley Leadership Award; 2x Recipient	Jul 2020, Aug 2021
National Speech and Debate Tournament; 6th Place	Jun 2020
USA Computing Olympiad; Platinum Division	Apr 2020