Peter Zhang

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Education

University of California, Berkeley	**Berkeley, CA**
Computer Science & Economics (intended) B.A.; 3.98 GPA	2020–2023

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

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

Experience

Amazon Web Services	**Arlington, VA**
Software Development Engineer Intern	Jun 2021–Aug 2021

– Designed/implemented a lightweight, flexible library/tool no notify 1000s of customers across services in <1min.
– Rapidly developed/tested/iterated using Java/Typescript, Python, & AWS services, exceeding performance goals.

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.

NLP Research Intern — Jun 2019–Aug 2019

– Designed rule-based Python scripts to preprocess corpora and construct subject-predicate-object tuples.
– Improved LDA topic modeling with root-and-rule preprocessing across multiple corpora, used for search tools.

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.

Skills

Languages: Python, Java/Typescript, R, SQL/MySQL, HTML/CSS/JavaScript, MATLAB, LATEX, Stata

Tools: Git/Terminal, Azure/AWS, VSCode/IntelliJ/Android Studio, WordPress, Electron

Awards

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