Peter Zhang

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Education

University of California, Berkeley **Berkeley, CA**
Computer Science & Economics B.A.; 3.97 GPA | 2020–2023
Coursework: Data Structures/Algorithms, Data Science, Artifical Intelligence, Discrete Math, Statistics/Probability
Activities: Voyager Consulting, The Daily Californian, Debate Society of Berkeley, Computer Science Mentors, UPE

Skills

Languages: Python, Java/Typescript, R, SQL, HTML/CSS, JavaScript/React, LaTeX, Stata, VBA, MATLAB
Tools: Git/Terminal, Azure/AWS, VSCode/IntelliJ/Android Studio, WordPress, Electron, Qualtrics

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
– Developed and streamlined R Shiny applications and markdown notebooks to showcase Open Policy Analysis
– Assessed and improved reproducibility for five papers using R, Stata, Python, and LaTeX, working with authors

National Institute of Standards and Technology **Gaithersburg, MD**
Economics Research Intern | May 2020–Sep 2020
– Annotated 50+ papers on resilience planning to find trends in how co-benefits are treated in benefit-cost analysis
– Published user manual and case study for Edge$, an online decision-making software for resilience projects
NLP Research Intern | Jun 2019–Aug 2019
– Wrote Python scripts to preprocess corpora and construct subject-predicate-object tuples with NLTK/Gensim
– Improved Latent Dirichlet Allocation topic modeling using root-and-rule preprocessing in Jupyter Notebook trials

National Cancer Institute **Rockville, MD**
Research Assistant | Jul 2019–Apr 2020
– Scraped and reformatted over 1 billion gene expression datapoints from drug trials for efficient user query
– Developed R Shiny app for dynamic plotting/analysis with one-click, Electron deployable, pending publication

Projects

Debate Analysis Sep 2020–Feb 2021
– Scraped 200k+ outcomes from debate tournaments and 5k+ online debate cases with BSoup/Selenium
– Published articles detailing the impact of transitioning to online debate and rates of public case disclosure

World4 Apr 2019
– Carrying capacity model based on Spearman correlation and regression of 20+ environmental indicators
– Awarded Top 6 in the US in the International Mathematics Modeling Competition for rigor and innovation

Eye Coach Jan 2019
– iOS app built with augmented reality and Haar cascades to help people with autism train eye contact
– Built in 24 hours at Hack Pennsylvania, winning best-in-show among 100+ other participants

Awards

Venture Capital Investment Competition; National Finalist	Feb 2021
UC Berkeley Leadership Award; Recipient	Jul 2020
National Speech and Debate Tournament; 6th Place	Jun 2020
USA Computing Olympiad; Platinum Division	Apr 2020
International Mathematics Modeling Competition; U.S. Finalist	May 2019