

Nathan Chan

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Education

- Bachelor of Science, Double Major in Statistics & Computer Science 2017 - Jun 2021
University of California, Davis
GPA: 3.7/4.0, Dean's Honor List, Minor in Political Science, student government

Skills

- Python: scikit-learn, numpy, pandas, seaborn, matplotlib, nltk, Jupyter notebooks
R: tidyverse, ggplot2, stringr, dplyr, ggmap
Data Science: SQL, Julia, machine learning, web scraping, visualizations, big data processing
Statistics: regression models, classification methods, probability, hypothesis testing, analysis of variance
Computer Science: Kotlin, Java, Android Studio, C++, C, Unix, Linux, Bash, Git, GitHub, HTML, CSS

Experience

- Data Analyst May 2019 - Present
Hibel Lab and HERD Lab, UC Davis Department of Psychology
 - Created Python program to web scrape public data sets, used pandas to reformat for analysis
 - Wrote R code for data wrangling problems: parse, clean, and store survey data sets of 4300 observations
 - Engineered Linux, Bash, and Python scripting process to format brain imaging data
 - Rebuilt website for California Families Project with better design and features
- Course Assistant Apr 2019 - Feb 2020
Statistics 103 and 106, UC Davis Department of Statistics
 - Graded and recorded homework assignments from 150 students in upper-division statistics courses
- Research Assistant Sep 2017 - Jun 2018
Asian American Center on Disparities Research, UC Davis Department of Psychology
 - Performed ANOVA and regression analysis with sample size of 425 students
 - Designed, wrote, and presented research poster at Undergraduate Research Conference at UC Davis

Projects

- Calories Per Dollar Mobile App Mar 2020 - Present
Kotlin in Android Studio
 - Input calories, servings, and price: output is calories per dollar, save items for future reference
 - Implemented using fragments, the recommended architecture for Android apps
- SF Chronicle Data Science Project Feb 2019
Python: numpy, pandas, html requests, nltk, matplotlib
 - Scraped sfchronicle.com for article information, like title, author, and date using html requests
 - Analyzed website for most-used words using nltk for language processing and matplotlib for visualizations
- Craigslist Apartment Listings Data Science Project Oct 2018 - Nov 2018
R: ggplot2, ggmap, stringr
 - Cleaned, explored, and analyzed apartment listings web-scraped from Craigslist
 - Found different living costs in LA, Sacramento, and SF and differences depending on price and location

Awards

- Certificate for outstanding achievement in presentation of research, UC Davis Apr 2019
Eagle Scout, Boy Scouts of America May 2016