AUSTIN MAC

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EXPERIENCE

Interview Query October 2019 - Present
Data Science Intern

Bot automation (Python, Selenium, BeautifulSoup, AWS), development of quiz web application (Golang, HTML, Google Sheets API), analysis of job listing data, design of training set for growth hacking algorithm.

RentZend, Inc. July 2019 - September 2019
Engineering/Operations Intern

Analysis of RentZend property data for search engine optimization (Python, PostgreSQL), creation of market statistics web pages (Sketch), data collection automation for marketing campaigns (BeautifulSoup/Selenium), video editing (Final Cut Pro X), tenant acquisition, lease signing.

MesoAmerican Research Center April 2019 - October 2019
Data Analyst

Quantitative data analysis of data from El Pilar, an ancient Maya city in Belize. Use of R, Python, SQL, Microsoft Access, Microsoft Excel to clean, visualize (Seaborn), predict (SciKit-Learn). Reports written in Markdown.

My Bunny Valentine LLC October 2018 - Present
Logistics Manager

Shipment and order management, road show and exhibition organization, and inventory management.

UCSB Gevirtz Graduate School of Education September 2018 - December 2018
Data Analyst

Qualitative data analysis of teacher interviews from the CalTeach program.

Academic Tutor August 2016 - September 2018
Math, Physics Tutor

Tutor for Algebra I, Geometry, Algebra II, Trigonometry, Calculus. Year-round tutoring.

UC Berkeley Academic Talent Development Program June 2016 - July 2016
Teaching Assistant

Teaching assistant for Algebra II/Trigonometry. Graded final exam, midterms, homework. Provided office hours for academic support. Copied, distributed, recorded assignments and reported attendance.

Orinda Care Center August 2015 - September 2017
Head Volunteer

Provided holistic care for patients, including reading, talking, showing films, games. Served meals and created documents for staff and inventory checks.

EDUCATION

University of California, Santa Barbara - Santa Barbara, CA *September 2018 - June 2021*
Majors: Statistics and Data Science (BS) and Computer Science (BS) *GPA: 3.68*

Diablo Valley College - Pleasant Hill, CA *June 2018 - July 2018*
Summer Course: Linear Algebra

University of California, Berkeley - Berkeley, CA *June 2016 - August 2016*
Summer Course: Multi-Variable Calculus

Miramonte High School - Orinda, CA *August 2014 - June 2018*

ACADEMIC ACHIEVEMENTS

2nd Place January 2020
SB Hacks

1st Place March 2018
Golden Gate Speech Association State Qualifier

3rd Place January 2018
Orinda Rotary Speech Contest

15th Place (State Semi-Finalist) May 2017
California High School Speech Association State Tournament

2nd Place January 2017
Golden Gate Speech Association Individual Events Tournament

RELEVANT COURSEWORK

Statistics	Programming in R, Data Science Principles, Hypothesis Testing, Confidence Intervals, Regression Analysis
Mathematics	Multi-Variable Calculus, Computational Linear Algebra Differential Equations, Proof Based Linear Algebra, Real Analysis
Computer Science	Data Structures & Algorithms, Git, OOP, Time Complexity

PUBLICATIONS

Mac, Austin R. "Don't Get Stuck." *Starting Lines*, 18th ed., Bedford Freeman & Worth, 2019, pp. 145-147.

RESEARCH PROJECTS

the drop. (2nd Place @ SB Hacks 2020)
GPS location based Venmo scavenger hunt game for web, Android, and iOS developed at annual UCSB Hackathon. Implemented back-end database (Firestore), trigger functions (JavaScript), automated SMS system (Twilio API), scheduled releases (CRON). Find at `dropabit.ch`

Forest Fires Regression Analysis
Regression analysis of Forest Fires data set from UCI Machine Learning Repository. Stepwise regression, model fitting, model transformations, hypothesis testing (F-test, t-test), prediction intervals, residual/normality analysis (R).

Ceramic Classification & Data Cleaning
Classified ceramics based off of variables *Form* and *Group*. Ceramics with conflicting variables were sorted by other factors using machine learning random forests/decision trees (SciKit-Learn, Pandas).

Jar Analysis
In order to sort jars into narrow and wide groups based off of rim diameter and group number, R, Python (Seaborn, Pandas), and Microsoft Access were utilized to perform quantitative data analysis.

SKILLS AND STRENGTHS

Languages	Python, R, SQL, Java, C++
Software & Tools	MS Office/Access, LaTeX, Sketch, Final Cut Pro X, Markdown, Tableau
Public Speaking	2017 State Semi-Finalist, 4 Years Competitive Speech and Debate

HOBBIES

Running Check out my Strava @ `https://www.strava.com/athletes/mac_austin`
Hiking
Piano
Rabbit Rescue