

AUSTIN MAC

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EXPERIENCE

Interview Query *Data Science Intern*

October 2019 - Present

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. *Engineering/Operations Intern*

July 2019 - September 2019

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 *Data Analyst*

April 2019 - October 2019

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 *Logistics Manager*

October 2018 - Present

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

UCSB Gevirtz Graduate School of Education *Data Analyst*

September 2018 - December 2018

Qualitative data analysis of teacher interviews from the CalTeach program.

Academic Tutor *Math, Physics Tutor*

August 2016 - September 2018

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

UC Berkeley Academic Talent Development Program *Teaching Assistant*

June 2016 - July 2016

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 *Head Volunteer*

August 2015 - September 2017

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 Mathematical Science (BS) *GPA: 3.62*

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

1st Place Golden Gate Speech Association State Qualifier	March 2018
3rd Place Orinda Rotary Speech Contest	January 2018
15th Place (State Semi-Finalist) California High School Speech Association State Tournament	May 2017
2nd Place Golden Gate Speech Association Individual Events Tournament	January 2017

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

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	