David Weinflash

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SUMMARY

Professional data analyst and aspiring software engineer pursuing a M.S. in Computer Science. A collaborative and analytical thinker with experience understanding customer needs, conducting research and developing user-friendly business applications to drive company strategy.

EDUCATION

University of California, Santa Barbara, CA   **June 2019 – Present**
M.S., Computer Science.

University of Arizona, Tucson, AZ   **January 2017 – May 2019**
B.S., Cum Laude, Computer Science. Minor: Mathematics. GPA: 3.6/4.0.

University of Arizona, Tucson, AZ   **August 2008 – May 2012**
B.A., Cum Laude, Economics. Minor: Spanish. GPA: 3.7/4.0.

SKILLS

Python, Java, C#, C, SQL, Cypher Query Language, R, Haskell, JavaScript, Visual Basic for Applications, Bash

RELEVANT COURSEWORK

Computer Science

Software Engineering, Object Oriented Programming, Algorithms, Analysis of Discrete Structures, Systems Programming and UNIX, Principles of Operating Systems, Database Design, Data Mining, Introduction to Deep Learning, Scalable Internet Services

Mathematics

Introduction to Statistical Methods, Probability and Statistics, Regression Analysis, Introduction to Linear Algebra, Multivariable Calculus

EXPERIENCE

University of California, Santa Barbara   **Santa Barbara CA**
Department Software Engineer – Interdisciplinary Humanities Center   August 2019 – Present

- Implement process automation to build upon previously manual procedures and increase department efficiency, saving approximately 20 working man-hours and supporting department staff.
- Provide interdepartmental technical support by designing, developing and deploying a user-friendly scheduling application to match volunteer interpreters with student-teacher conferences throughout the Goleta and Santa Barbara school districts.
- Utilize JavaScript and the Google Apps Script environment to import, organize and distribute data collected from G Suite applications Google Sheets and Google Forms.

The University of Arizona   **Tucson AZ**
Undergraduate Research Fellow   January 2018 – May 2019

- Undergraduate researcher employed by UA-TRIPODS (Transdisciplinary Research in the Principles of Data Science).
- Teamed with the Interdisciplinary Visual Intelligence Lab to advance the Big Mechanism Project at the University of Arizona. Originally developed at DARPA, the Big Mechanism Project aims to develop infrastructure for automating research involving large systems of complicated networks.
- Worked to develop a probabilistic model to infer the structure of chemical reaction pathways using data extracted from biomedical research papers. Utilized the graph database Neo4J, the query language Cypher and programming language Python to develop a code base to perform extensive data analysis and improve the accuracy of the assembly model.

Meritage Homes   **Scottsdale AZ**
Senior Market Research Analyst   January 2014 – November 2016
Market Research Analyst   June 2012 – January 2014
Market Research Intern   June 2011 – June 2012

- Designed and developed internal market research software programs, enabling the Strategic Operations, Land Acquisition and Sales teams to quickly parse convoluted data sets and make informed business decisions, saving significant time and resources.
- Utilized SQL and Visual Basic for Applications to pioneer, automate and maintain the first-ever company-wide market research platform built upon the Microsoft Office suite of applications.
- Integrated Microsoft Excel and Google Earth KMZ files via Visual Basic for Applications to deliver a dynamic price analysis application to efficiently analyze residential market data.
- Performed in-depth land acquisition research, competitive analysis and travel throughout the California, Arizona and Texas home markets.