

Joshua Gomes

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EDUCATION

University of California, Irvine - Irvine, CA
Bachelor of Science in Computer Science

June 2022

RELEVANT COURSEWORK:

Intermediate C++ Programming, Intermediate Python, Data Structure Implementation and Analysis(C++), Software Engineering Principles, Unix/Linux, Probability and Statistics for CS, Computational Linear Algebra

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, JavaScript, HTML5, CSS3
- **Technologies/Databases:** React, Flask, SQL, Redshift, Pandas, Hive, AWS S3
- **Tools/Systems:** Unix, Shell Scripting, Git, Hadoop

WORK EXPERIENCE

Data Engineering Intern | Affinity Solutions, San Jose, CA

Aug. 2020–Present

- Led a project to build and deploy a DSAR CCPA compliance framework on the Identity Engine handling over 15 million records for the entire organization
- Used Hive, Spark and Python to retrieve data from key value data stores
- Designed, built and automated relevant data pipelines to provide actionable information to the product team
- Automated sales report delivery to clients using Python. This feature saved a minimum of 12 hours of manual work weekly generating multiple reports in different formats for customers
- Participated in bi-weekly agile sprints to ensure rapid feature delivery

PROJECTS

Genome Explorer - Data Structures in C++

- Applied object-oriented programming principles to process a data set of 10,000 genomes, sequencing a novel genome without any reference sequence available for alignment
- Utilized 3 different data structures to access data to display different results based on user queries
- Designed the UI flow and co-ordinated tasks between 5 team members to ensure timely completion
 - *Link - <https://github.com/codewitty/FinalProject>*

Address Verification- Python, Pandas, Flask, Google API's

- Created an algorithm to carry out address verification and normalization using a custom database as well as Google API's.
- Utilized Flask to build a web application that used the normalized address to generate a radius around the given location on a map to check for nearby counties or neighboring states.

Personal Web Application - HTML5, CSS3, Javascript, React, Flask, Heroku

- Created a website from scratch to showcase my CS skills and projects
- Utilized Github for version control and hosted the website on heroku.
 - *Link - <https://joshuagomes.herokuapp.com>*

EXTRACURRICULARS AND LEADERSHIP

Inter-Club Council Secretary, De Anza College, Cupertino, CA

Jan. 2019–Aug 2020

- Supported the Inter-Club Council Advisor which ensured club adherence to College requirements.
Total club count grew from 55 to 88 from 2019 to 2020.
- Pioneered a peer mentorship program for college students together with the ICC Officers

OTI Volunteer, De Anza College, Cupertino, CA

Oct. 2018–Dec 2018

- Setup and minor repairs of refurbished laptops donated to students in need
- The team built and delivered a record 315 computers in Q4 2018

INTERESTS

- AI / Machine Learning, Cybersecurity, Soccer, Hiking, Photography