

Neil Bisht

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EDUCATION

UC Irvine – Irvine, CA Sep. 2022 - June 2024
Bachelor of Science in Computer Science, GPA: 3.8

UC Santa Cruz – Santa Cruz, CA Sep. 2020 - June 2022
Bachelor of Science in Computer Science, GPA: 3.9

- Awards: Dean's Honors List (5 quarters)

Activities and Organizations: Tech4Good, UCI Design, College Scholars Program, ACM, Tau Kappa Epsilon, Sigma Pi
Relevant coursework: Software Engineering, Data Structures and Algorithms, Information Retrieval, Database Management, Computer Systems and C Programming, Programming Abstractions in Python

EXPERIENCE AND LEADERSHIP

JP Morgan Chase & Co - Data For Good Extern | Plano, TX Apr. 2022 - Apr. 2022

- Selected as one of 120 students from over 800 applicants to partake in a hackathon aimed at aiding agricultural foreign investment; built models to maximize investment while minimizing global climate impact
- Produced data visualizations to locate and analyze trends with Python's Pandas and Matplotlib libraries
- Developed and presented a Canva presentation of my team's methodology, analyses, predictions, and results for a board of senior data engineers

Tech4Good Laboratory - Web Developer (UI Components team) | Santa Cruz, CA Sep. 2021 - Mar. 2022

- Worked in a 4-member team to build responsive web pages for research in social computing
- Collaborated with designers through Figma to design and update existing web pages, increasing user experience by 11%; analytics were derived from user surveys
- Implemented responsive design and the CSS flexbox paradigm to revamp previously fixed-width components

Tau Kappa Epsilon Fraternity - Academic Committee Chairman | Santa Cruz, CA Sep. 2021 - Mar. 2022

- Hosted 2 weekly group study sessions by major to facilitate peer-to-peer growth aiding in a 3.5 average fraternal GPA
- Connected each individual member with a TKE alumni mentor for career and personal guidance. Queried satisfaction through periodic surveys to ensure members gained the most out of their mentor relationship

PROJECTS

RSA Key Generator, Encryptor, and Decryptor - C

- Built a public/private key generator and RSA encryptor/decryptor with the math behind asymmetric encryption
- Capable of encrypting and decrypting files of arbitrary size
- Utilized GNU's Multiple Precision Arithmetic library to handle arbitrarily large numbers that C's standard library can't
- Tools: GNU MP Arithmetic Library

Comparison of Sorting Algorithms - C

- Implemented and compared four sorting algorithms: Insertion Sort, Shell Sort, Heap Sort, and Quick Sort
- Sorts a random number array of an inputted size with a specified sorting algorithm of the user's choosing (or all)
- Produces statistics on the number of moves and comparisons in order to weigh the effectiveness of each algorithm in varying contexts

SurfSender - Python

- Developed web application that scrapes weekly surf data from the web and curates an optimized surf report
- Designed an algorithm to deliver polished forecasts of the week's wave heights, wave ratings, and ideal time to surf
- Tools: Flask, BeautifulSoup

SKILLS

- **Languages:** Python, C/C++, Java, PostgreSQL, HTML, CSS
- **Technologies:** Unix, MacOS, Git, Figma, Notion, Adobe Photoshop