Tina Sibbal

📞 530-760-9666 | ✉ tsibbal@ucdavis.edu | ⌗ github.com/tnsb | 🔗 linkedin.com/in/tina-sibbal

Education

University of California, Davis   **Davis, CA**
Bachelor of Science, Computer Science and Engineering; Economics Minor   Expected Graduation: June 2022

Relevant coursework: Object-Oriented Programming in C++, Data Structures, Algorithm Design & Analysis, Machine-dependent Programming, Computer Architecture, Operating Systems, Software Engineering, Software Tools, Computer Networks, Circuits, Embedded Systems

Skills

Languages: Python, Java, JavaScript, HTML/CSS, C, C#, C++, Solidity, R, SQL, Haskell, Prolog, Assembly, Chisel
Frameworks/Libraries: React, Node.js, Express, MongoDB, Django, Bootstrap
Technologies: Git, Vim, MySQL, NoSQL, Linux/Ubuntu, Google Cloud, Firebase, REST APIs

Work Experience

Security Lab at UC Davis | Software Research Assistant
January 2022 – Present | Davis, CA

• Currently designing and building a research project to sanitize network data and secure sensitive data. The program takes in a packet from the current network in PCAP format and returns a changed packet out by recomputing the checksum and replacing the header file in the packet using **Python, JavaScript** input validation, and a **NoSQL** database.
• Utilized the source code to migrate the database onto a cloud-based service.

UC Davis Office of Research | IT Operations Student Assistant
October 2020 – Present | Davis, CA

• Managed the OR security system using secure network VPNs, regular security scans, and updating firewalls and routers.
• Identified and resolved major client queries using command-line tools, **SQL Queries,** and **Python** workflows.

SacHacks | Finance Associate
January 2020 – Present | Davis, CA

• Managed budget accounts, fundraising, external sponsorships, and other financial filings while adhering to non-profit status.

Blockchain at Davis | Director of Operations and Outreach
September 2019 – December 2020 | Davis, CA

• Created an environment to educate students on FinTech concepts and Blockchain programming languages such as **Solidity** and **C++** through intensive coding workshops and research projects.
• Managed the operations team to organize weekly brainstorming mixers for members which led to an increase in club projects.

Alletec (Microsoft Gold Partner) | Software Engineering Intern
July 2019 – August 2019 | New Delhi, India

• Joined the CRM team to work and build on **Microsoft Dynamics 365** for Sales operations using **C#**.
• Built web forms and templates using **Microsoft .NET** to map data onto the Alletec database system to analyze and clean data in order to improve end-user experience.
• Participated in product management meetings to review product impact and feedback to increase productivity.

Projects

Paper Trading Platform

• Designed and built a web application using **ReactJS** and **HTML/CSS** to simulate the stock market and allow users to practice trading without any financial risk.
• Stimulated stock market data using the Yahoo Finance API integrated with the **Django** framework in the backend.
• Built user profiles using Django, authenticated users with Google, and stored user data using a NoSQL database from **Google Cloud.**

DCash Wallet

• Built a concurrent web server using **C++** and **Bootstrap** to serve as a virtual wallet for users to transfer and receive money.
• Implemented services like user authentication, money transfer and money deposit while storing user data in a local database.

Vocalize

• Implemented a mobile application which enables individuals with Autism Spectrum Disorder (ASD) to communicate effectively by visualizing text to speech using an integrated chat extension.
• Paired the **Google Firebase** backend with **GPT-3** that utilizes deep learning to produce human-like text for data conversion.