

Bella Chen

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EDUCATION

University of California - Santa Cruz

Bachelor of Science in Computer Science
GPA: 3.6

Santa Cruz, CA

Sept. 2021 – Jun 2023

Relevant Coursework: Data Structures and Algorithms, Computer Systems and C Programming, Intermediate Python Programming, Advanced Python Programming, Full Stack Web Applications

City College of San Francisco

Studied Computer Science for transfer

San Francisco, CA

Aug 2018 – May 2021

TECHNICAL SKILLS

Languages: Java, Python, C, HTML, CSS, Javascript, React, Node.js, PostgreSQL

Developer Tools/Skills: Git, Linux, Trello, Zendesk, Slack, Google Workspace, Active Directory, Microsoft

Certifications: CompTIA A+

PROJECTS

MultiThreaded HTTP Server | C

March 2023

- Developed a HTTP server from C that was able to process GET and PUT requests synchronously by using threads
- Allowed the server to accept multiple connections within a port by creating worker threads
- Prevented threads from having any race conditions and atomicity violations by incorporating mutexes

Basic Gmail Clone | Javascript, HTML, CSS, Node, Express, PostgreSQL

November – December 2022

- Incorporated Drawer, Login, Home page, Mail list components to create a Gmail Web App sourced by Material UI
- Validated queries and parameters regarding emails from HTTP methods by utilizing an OpenAPI schema to satisfy the standards of REST

Javascript Calendar | Javascript, HTML, CSS

October 2022

- Created a program that has a function of a calendar visually which allows us to move between the previous and next months
- Extended the properties of a calendar from incorporating a selector to highlight the current day by mapping its value to an identification labeled "today"
- Programmed from HTML and CSS to allow the calendar to look presentable as a form of UI/UX representation

The Great Firewall of Santa Cruz | C, Linux

December 2021

- Designed a program that filters out or changes malicious input from a file to develop a message based on its data by using RegEx
- Checked where bits are set from a bit vector and to store words by using a Bloom Filter
- Ensured for validity from the words by using a Hash Table of Binary Search Trees with the left child as the untranslated word and right child as the corresponding translated word

WORK EXPERIENCE

IT Operations Assistant

Jul 2024 – Present

YMCA of Greater San Francisco

San Francisco, CA

- Reimaged over 100 desktops and laptops per month from outdated versions of Windows by booting from USB to improve security and modernization of infrastructure
- Joined all devices to the YMCA domain and AD by placing them into their specific OU to maintain organization
- Managed and set up 20 workstations for new users per month from configuring their devices by ensuring that it is connected to the right network through DNS settings and group policies are updated
- Troubleshooted users' issues from 15 different YMCA branches by utilizing Zendesk to reduce downtime and improve user experience

Reader for CSE130 (Principles of Computer System Design)

April 2023 – June 2023

UCSC

Santa Cruz, CA

- Graded over from 80 to 150 assignments weekly on operating systems by rubric
- Communicated with other graders and the teacher's assistant weekly on what needs to be graded from homework assignments to midterms/finals by Discord