PAUL SIMBULAN

Software Engineer

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About

- **Software Engineer** based on Bay Area, California.
- worked on Full Stack Web Applications, Mobile Applications, and Low-level languages.
- I'm currently seeking a Full Time Employment in Software Engineering.

Skills & Technologies

- HTML | CSS | Javascript | Typescript | React/React Native | TailwindCSS | Material UI | Python | Java | C | C++ | Express.js | Node.js
- Expo | Figma | MongoDB | Supabase | Postgresql | Git | Linux | Docker | Vite | NPM | Yarn | Jest | Story Book | Heroku | Hostinger
- Frontend | Backend | Full Stack | Web Programming | Mobile Programming | Agile | Scrum | Language: English, Tagalog, Kapampangan

Projects

(*For a comprehensive overview of my projects, including screenshots, demo videos and further details, please visit my website https://paulsimbulan.com.*)

Mailman – *Modern Lightweight Email Service (v1.0)*   **Live Site**: *https://mailman.paulsimbulan.com*   **Code**: *https://github.com/pajsimbulan/MailMan*

- A lightweight email service designed to simplify the emailing experience by offering a chat-like interface, quick navigation, and essential email features without the clutter—all in a responsive design that works on different devices.
- Implemented features such as sending receiving, searching, and organizing emails, saved user sessions, and account creation.
- Employed secure authentication (*JWT*) and encryption methods (*Bcrypt*) to ensure privacy and safety for users.
- This is a **solo project** of mine and will continue to work on as I gain more experience on the field. *See Code for future plans (v2.0)*.
- Technologies Used: JavaScript, React, Material UI, CSS, Node.js, Express, MongoDB, JSON Web Token, Bcrypt, NPM, GitHub, Hostinger (Frontend Hosting), Heroku (Backend Hosting)

Slugfit – *Cross Platform Fitness App*   **Code**: *https://github.com/pajsimbulan/SlugFit*

- A fitness app inspired by the block-based UI of Notion that caters to users with varying fitness experience, offering workout creation, saving, editing, analysis, an integrated calendar for tracking workouts, and a social feed for interactions with other users.
- Developed with a team of 5 other people using Scrum and Agile methodologies in 10 weeks (4 sprints), leading the team as Scrum Master for one sprint.
- My contributions to the project included developing user navigation, search features, workout selection, exercise cards, and some UI design with Figma.
- Technologies Used: TypeScript, React Native, TailwindCSS, Expo, Supabase, PostgreSQL, Figma, Storybook, Jest, Yarn, GitHub

HTTP Server – *Multi-threaded HTTP Server 1.1 in C*   **Code**: *https://github.com/pajsimbulan/httpserver*

- Implemented a low-level implementation of an HTTP server using C and POSIX threads—supports both single-thread and multi-threaded model to handle incoming client connections and serve GET, PUT, and HEAD HTTP requests.
- Utilized mutex lock with conditions on a queue data structure to provide a thread-safe environment.
- Conducted single-threaded and multi-threaded tests to ensure server performance and stability.
- Technologies Used: C, Python, Linux

Huffman Encoding/Decoding in C – *A Lossless Data Compression*   **Code**: *https://github.com/pajsimbulan/huffman*

- Developed an implementation of the widely used Huffman encoding and decoding algorithms in C for lossless data compression.
- Utilized custom-built Huffman trees (with stack), priority queues, linked list, and bit manipulation to generate unique binary codes for input characters based on frequency, optimizing file compression and decompression.
- Ensured efficient memory management and error handling throughout the program.
- Technologies Used: C, Linux

Website Portfolio – *paulsimbulan.com*   **Code**: *https://github.com/pajsimbulan/webportfolio*

- A personal portfolio website showcasing projects and skills with a clean and responsive design for a seamless experience on different devices.
- Employs automatic email messaging to owner with *EmailJS* API.
- Deployed the website using Hostinger and set up a custom domain.
- Technologies Used: HTML, CSS, Javascript, React, Vite, Hostinger (hosting).

Education

Bachelor of Science	**University of California, Santa Cruz**	*Santa Cruz, Ca*	**2020 – 2022**

- Computer Science, BS

Associate in Science	**City College of San Francisco**	*San Francisco, Ca*	**2018 – 2020**

- Computer Science, AS *(High Honors)*

Other Experience

Office Assistant	**University of California, Santa Cruz (Porter Housing Office)**	*Santa Cruz, Ca*	**Jan 2022 – Dec 2022**
Office Assistant	**City College of San Francisco (Purchasing / Accounting Dept.)**	*Santa Cruz, Ca*	**Aug 2018 – May 2022**
Sandwich Artist	**Subway**	*San Francisco, Ca*	**Feb 2016 – Jul 2018**