Willard Bui

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LinkedIn
Github

Objective: Inquisitive and energetic computer science specialist skilled in teaching with a strong foundation in math, logic, and program development. Seeking to leverage solid skills in collaboration, communication, and development as a software developer.

EDUCATION

Bachelors of Science, Computer Science, University of Texas at Austin, GPA: 3.265/4.00   **Aug 2020 — May 2024**

- Relevant coursework: Data Structures, Discrete Math, Computer Architecture, Operating Systems.

PROJECTS

Project 1, Responsive Portfolio Website
- Used HTML5 to structure and create a one-page portfolio website.
- Used CSS3 to layout and style a responsive site, combined with visually pleasing elements.
- Used JavaScript to make web-page interactive. Implemented popout menus, cascading skill dropdowns, and timeline segments for education and work. Also designed a scroll button and a light/dark mode toggle.

Project 2, PintOS
- Built the foundations of a simple OS using the Stanford PINTOS codebase in the C programming language.
- Worked in a pair-programming environment and used GitLab to track changes as a team.
- Implemented basic thread functionality, CPU scheduling based on priority, and a memory paging system. Also extended the functionality of the file system and created extent-based allocation.

Project 3, Command-Line Interpreter
- Constructed a command line interpreter using C that could run system calls.
- Learned the basics of concurrency and implemented the ability to fork new processes.
- Designed to be run through an interactive terminal window; functions as an alternative to a shell.

EXPERIENCE

Undergraduate Research (Part-time)   **Aug 2022 — Present**
University of Texas   Austin, TX
- Creating a human genome visualization tool that maps gene mutations to the reference human genome.
- Helping analyze the effects of mutation placement in genes under the guidance of the Director of Bioinformatics at the University of Texas.

Computer Science Tutor (Part-time)   **Feb 2022 — May 2022**
Liberal Arts and Science Academy   Austin, TX
- Gave in person tutoring to students three days a week at the 41st ranked high-school nationally.
- Offered tutoring for LASA's Intro to CS course in Python, AP CS course in Java, and Advanced CS course in C++.

Private Tutor (Part-time)   **Sept 2019 — May 2020**
Self-Employed   Cypress, TX
- Gave hybrid lessons to 10+ students that were interested in developing personal portfolios.
- Taught remotely using HTML, CSS, JS, and other virtual presentation tools.
- Offered supplemental curriculum revolving around Scratch and Java for younger students.

SKILLS

Skills: Java, C, Python, R, HTML, CSS, JavaScript, Git, DevOps, Teamwork, Collaboration, and Problem Solving