

Zhimei (Christina) Wang

US Citizen • SWE 24 • GHC 24 Attendee

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EDUCATION

Columbia University | *MS in Computer Science*, GPA: First Semester 05/26

Oregon State University | *BS in Computer Science*, GPA: 4.0 06/24

- 6x Honor Roll.
- Core classes (Grade: A): CS 374 Operating Systems, CS 271 Computer Architecture & Assembly Language, CS 475 Parallel Programming, CS 340 Introduction to Database, CS 361 & CS 362 Software Engineering, CS 493 Cloud Development, CS 372 Computer Networks, CS 261 Data Structures, CS 290 Web Development, CS 325 Analysis of Algorithms

TECHNOLOGY SKILLS & COURSES

Technology Skills: Python, C, Linux, kernel, Git, SQL, Flask, Google Cloud Platform, JavaScript, Node.js, React.js, Express.js, Svelte, C++, OpenMP, OpenCL, OpenMPI, CUDA, MongoDB, Docker, Firebase, HTML, Jira, Java

PROFESSIONAL EXPERIENCE

Typical Day LLC | New York, NY | *Software Engineering Intern* 09/24 – Current

- Developed a dynamic code editor using Svelte, allowing for real-time adjustments to AI-generated media content.
- Created a preview interface for AI-generated videos, enabling users to view and modify media components such as audio, images, and text elements.
- Designed and implemented a prompt input feature to interact with AI for generating custom video, audio, and visual elements.

Oregon State University | College of Engineering | *Teaching Assistant* 12/22 – 06/24

- CS 162: Introduction to Computer Science II (3x), CS 325: Analysis of Algorithms (3x), CS 290: Web Development (1x).
- Conducted office hours, provided personalized guidance to 10+ students per session, troubleshooted code, walked through problem-solving examples, and debugged issues.
- Actively engaged on course platforms, answered student questions, and offered support.
- Reviewed and graded 1500+ coding assignments, delivered detailed, constructive feedback to improve student learning outcomes.

PROJECTS

Secure Password Manager | Python, React, Google Cloud, SQL github.com/zhimw/password_manager

- Developed a fully functional, web-based password manager, hosted on Google Cloud Platform (GCP) for reliable, scalable deployment, achieving 99.9% uptime during testing.
- Built a responsive and dynamic React.js front-end using React-Bootstrap, optimizing component rendering and enhancing front-end performance, resulting in a 30% faster load time and seamless data flow between components.
- Designed and implemented secure, RESTful API endpoints in Python to manage password encryption, and CRUD operations, ensuring 99% test coverage for critical back-end functionalities.
- Created and executed over 100 automated tests in Postman, validating user authentication, encryption algorithms, and data integrity, achieving a 0% error rate in all critical API functions post-deployment.

Customized Linux System Call | C, Linux kernel Not published

- Developed a new Linux system call within the Linux kernel to retrieve detailed process and thread information from a given root PID, utilizing BFS traversal for efficient navigation of the process tree.
- Created a comprehensive user-space program to test the system call, managing process manipulation and thread creation, which accurately captured and displayed information for 100+ processes and threads during testing.
- Ensured the system call's scalability, with testing showing no performance degradation while handling trees with up to 500 processes and threads.

LEADERSHIP AND VOLUNTEERING

Society of Women Engineers | *Judge* 01/24 – Current