

Tony Wu

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Redmond, Washington

OBJECTIVE

Seeking an internship or research position to leverage my problem solving skills and further develop my programming abilities. Motivated to contribute to innovative projects to make the world a better place.

EDUCATION

- **University of Washington Seattle** *Expected June 2026*
Seattle, Washington
Bachelor of Science in Computer Science
 - GPA: 3.97/4.00
 - Relevant Coursework: Machine Learning, Data Structures and Parallelism, Introduction to Artificial Intelligence, Software Engineering, Data Visualization, Software Design & Implementation, Systems Programming, Foundations of Computing II, The Hardware/Software Interface
 - University Honors Program

SKILLS

- **Programming Languages:** Java, C/C++, Python, JavaScript, TypeScript, SQL, HTML, CSS, x86 Assembly
- **Tools/Libraries/Frameworks:** Git, Linux, React, Matplotlib, PyTorch, NumPy, Next.js, Express, Tailwind, D3, Vega-Lite, Jest, Supertest, LaTeX
- **IDEs:** Visual Studio Code, Vim, IntelliJ IDEA, Jupyter Notebook, jGRASP

PROJECTS

- **ProofTrack Mobile Application** *October 2024 - Present*
Tools: Express.js, SQL, Jest, Supertest
 - Worked in team of 6 to design and prototype a project management application from scratch
 - Configured Azure SQL database to store and track user and project data systematically
 - Created Express routes to facilitate user login and project retrieval from database
 - Tested REST API endpoints with Jest and Supertest to ensure proper functionality
- **County Quiz Game** *November 2024*
Tools: D3, Javascript, HTML
 - Developed game that challenged players to identify US counties while tracking their combined population
 - Utilized D3 to render an interactive county-level map of the US with named counties in red
 - Implemented zoom to selected county functionality and displayed county information on hover
- **Personal Website** *August 2024*
Tools: Next.js, Tailwind, Nginx
 - Deployed personal website hosted on Nginx using DigitalOcean virtual machines
 - Designed an interactive interface based on user input and local time through Tailwind
 - Automated the build and deployment processes with a custom shell script
- **Search Engine Clone** *July 2024 - August 2024*
Tools: C, C++, HTML
 - Engineered a website with a Google-like interface that enables efficient querying of specific directories
 - Implemented parallel programming for sockets, enabling a server to connect with many clients at once
 - Built robust system for parsing and retrieving files based on search parameters
- **Wedding Planner** *May 2024*
Tools: React, TypeScript, HTML
 - Developed web application with real-time updates that allowed users to manage guest registrations for a wedding
 - Created user-friendly pages for guests to RSVP and input dietary restrictions
 - Leveraged React library to enable smooth server and client side communication