

# Tony Wu

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Redmond, Washington

## OBJECTIVE

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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

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- **University of Washington Seattle**

Bachelor of Science in Computer Science

Expected June 2026

Seattle, Washington

- GPA: 3.97/4.00

- Relevant Coursework: Machine Learning, Data Structures and Parallelism, Introduction to Algorithms, Natural Language Processing, Introduction to Operating Systems, Software Engineering, Data Visualization, Systems Programming, Foundations of Computing II

- University Honors Program

## SKILLS

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- **Programming Languages:** Java, C/C++, Python, JavaScript/TypeScript, SQL, HTML/CSS, Shell Scripting
- **Tools/Libraries/Frameworks:** Git, React, Node.js, PyTorch, NumPy, Next.js, Express.js, Tailwind, D3, Matplotlib, Docker, Jest, L<sup>A</sup>T<sub>E</sub>X
- **IDEs:** Visual Studio Code, Vim, IntelliJ IDEA, Jupyter Notebook, jGRASP, Google Colab

## PROJECTS

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- **ProofTrack Mobile Application**

October - December 2024

Tools: JavaScript, SQL, Express.js, Jest

- Worked in team of 6 to design and prototype a project management application from scratch
- Created Express.js backend hosted on an Azure VM to facilitate user login and project retrieval
- Configured Azure SQL database with MSSQL to store user and project data efficiently
- Tested API endpoints with Jest and Supertest to ensure smooth frontend-backend integration

- **County Quiz Game**

November - December 2024

Tools: Javascript, D3, HTML/CSS

- 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 user-chosen color
- Implemented zoom to county functionality and displayed county information on hover

- **Personal Website**

August 2024

Tools: TypeScript, Next.js, Tailwind, HTML/CSS

- Deployed personal website hosted on a DigitalOcean virtual machine with Nginx server blocks
- 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 -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: TypeScript, React, 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