

Zachary Wu

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Education

University of Washington (GPA: 3.93/4.0)

Seattle, WA, U.S.A.

Bachelor of Science in Informatics

Jun 2027

Bachelor of Science in Applied and Computational Mathematical Sciences (Data Science and Statistics)

Roosevelt High School (GPA: 3.99/4.0 - 4.375 weighted)

Seattle, WA, U.S.A.

1530 SAT Score - 760 EVBRW 770 Math

Sep. 2019 - Jun. 2023

Experience

UW Baseball Data Analyst

Sep 2025 - Present

University of Washington

Seattle, WA

- Collect, clean, and manage large player datasets from TrackMan, 6-4-3 Charts, and Synergy.
- Apply **R**, **Python**, and **SQL** to perform statistical analysis, build performance metrics, and uncover trends in player development.
- Create data visualizations and reports to support evidence-based decision-making.

Teaching Assistant - Java

Sep 2024 - Present

University of Washington Computer Science

Seattle, WA

- Teach students **Java** and coding fundamentals in UW's CSE 12X series through lectures, office hours and discussions.
- Design, grade, and provide feedback on programming assignments, projects, and exams.
- Support about 500 students and grade about 200 assignments/tests per quarter.

Product Management Intern

June 2025 - Sep 2025

Domecile

Seattle, WA

- Conducted market and partner research and built out automated forms functionality.
- Partnered with product and data teams to support and ensure seamless implementation of form functionality.
- Built and pathed 60% of all questionnaires and application forms to streamline application process

Web Development Intern

March 2025 - Sep 2025

University of Washington Svoboda Diaries Project

Seattle, WA

- Contributed to the analysis of 19th-century Middle Eastern diaries through social network analysis, topic modeling and distant reading (**Python**).
- Utilized **Node.js**, **JavaScript**, **HTML**, and **CSS** to improve website performance and user experience.
- Extended the Rivermap site, adding functionality and increasing user accessibility.

Instructor

Jun 2024 - Aug 2024

Lavner Education

Seattle, WA

- Taught coding languages including **Python** and **Java**, with a focus on introductory machine learning, data structures and algorithms.
- Led classes of 10 students aged 8-15 through a variety of activities, lessons and discussions.
- Equipped over 100 students with foundational programming skills for continued learning.

Projects

SportsXcel - Full Stack Ecommerce Website | JavaScript, HTML, CSS, SQL, Node.js

- Developed a dynamic e-commerce website with **JavaScript**, **HTML**, and **CSS**, providing a responsive, user-friendly interface for an online shopping experience.
- Built and integrated a **Node.js** backend to handle API requests, enabling efficient data flow between client and server.
- Designed and implemented a database to manage inventory, user accounts, and transactions. Integrated the database with the website's front-end and back-end systems to support smooth operations.

Multifaceted Analysis of NBA Data using R and Social Network Analysis | R, Python

- Used **R** to clean, manipulate, and analyze NBA datasets, generating insights through visualizations and comparisons.
- Conducted Social Network Analysis in **Gephi** on player relationships and game flow, using network graphs to detect key playmakers and hidden team dynamics.

Technical Skills

- **Programming Languages:** Java, Python, R, JavaScript, HTML, CSS, SQL.
- **Frameworks:** Node.js, JUnit,
- **Developer Tools:** Git, VS Code, IntelliJ, Jupyter Notebook, Gephi.
- **Libraries:** Pandas, NumPy, Matplotlib, ggplot2, React.