Maxwell Steele

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Education

University of Washington Expected Graduation: June 2026

Bachelor of Science in Computer Science | ***3.91 GPA*** *Seattle, WA*

- **Relevant Coursework**: Data Structures & Parallelism, Software Design & Implementation, Algorithms, Intro to Data Management, Object-Oriented Programming, Hardware/Software Interface, Foundations of Computing 1 & 2 (Discrete Math & Probability), Linear Algebra, Intro to Comp Sci
- **Honors**: Dean's List, Washington Award for Technical Excellence (2023, 2024, 2025)

Experience

Software Engineer Intern Sept. 2024 – Present

Pacific Northwest National Laboratory (PNNL) *Seattle, WA*

- Developed sponsored **React** web applications as a full-stack engineer in the Foundational Data Science group.
- Designed and implemented a data visualization feature interfacing **ML/AI** analytics for **1m+ records**, supporting national security initiatives for federal government agencies.
- Collaborated with **UI/UX** design team to integrate visualizations for dynamic topic modeling analytics with **TypeScript** and Airbnb's **Visx** library.
- Created a **RESTful API** using **Flask**, **Python**, and **Scikit-Learn** to aggregate and classify seasonality automatically.
- Tracked development using **Jira**, utilized **GitLab** for version control management and code reviews.

Software Engineer Intern | Department of Homeland Security June 2024 – Aug. 2024

Pacific Northwest National Laboratory (PNNL) *Richland, WA*

- Contributed **UI** and **API** development as part of the DHS-WIRED national security program at PNNL.
- Created internal search and filtering tools for an **ML pipeline** processing **600k+ entries**, leveraging **React**, **Material UI** as the component library, and **GraphQL**.
- Developed a robust **RESTful API** using **Flask**, **Python**, **AWS S3**, and **Docker** containerization, reducing loading times by 70% across multiple dense text corpora.
- Contributed to an annual technical **project report** detailing new features and describing example use-cases.

Peer Mentor Sept. 2022 – June 2023

Washington State University GEAR-UP *Kennewick, WA*

- Aided students in completing scholarship applications and financial aid.
- Organized and administered college tours for freshman and sophomore cohorts (50+ participants).
- Mentored students in applying to universities including the University of Washington.

Student Tutor Sept. 2021 – June 2023

Washington State University GEAR-UP *Kennewick, WA*

- Supported 100+ students weekly with high school curriculum coursework.
- Provided daily STEM and career-focused lessons with individualized approaches for underrepresented students.
- Increased retention in school-wide GEAR-UP programs by 30% by collaborating with faculty.

Projects

Automated E-Commerce Photo Editor | *MERN, React, TypeScript, Node.js* Sept. 2024

- Developed a **React** webapp using the **MERN** stack and Pixo's image editing **RESTful API** to automate photography editing for online retail marketplaces, reducing manual editing time by 75%.
- Increased personal sell-through rates by 20% through automated filter application, improving photo quality and consistency between cross-platform listings, leading to faster sales conversions.

Personal Portfolio | *Next.js, React, TypeScript, HTML/CSS, Framer Motion, Vercel* Dec. 2024

Technical Skills

Languages: Java, JavaScript/TypeScript, Python, C, HTML/CSS
Frameworks & Build Tools: React, Visx, Node.js, Flask, NumPy, Pandas, GraphQL, Docker
Technologies: Git, GitLab, VSCode, Jupyter, Linux, Bash, AWS (S3, EC2), LaTeX