Maxwell Steele

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EDUCATION

University of Washington Expected Graduation: June 2026
Bachelor of Science in Computer Science | 3.93 GPA *Seattle, WA*

- **Relevant Coursework**: Data Structures & Parallelism, Software Design & Implementation, Object-Oriented Programming, Foundations of Computing 1 & 2 (Discrete Math & Probability), Linear Algebra, Intro to Comp Sci
- **Honors**: Washington Award for Vocational & Technical Excellence (2023), Washington Opportunity Baccalaureate Scholar (2024)

EXPERIENCE

Software Engineer Intern Sept. 2024 – Present
Pacific Northwest National Laboratory (PNNL) *Seattle, WA*

- Designed and developed advanced data visualization features for a **React-based** application supporting national security and biosurveillance initiatives for federal government agencies.
- Leveraged Airbnb's **Visx** package to interface data analytics housed in **AWS OpenSearch**, prioritizing interactivity and reliability for biosecurity analysts.
- Collaborated cross-functionally with data scientists and **UI/UX** design team, including multiple revision cycles based on sponsor feedback and an annual **project report**.

Software Engineer Intern | Department of Homeland Security June 2024 – Aug. 2024
Pacific Northwest National Laboratory (PNNL) *Richland, WA*

- Developed a full-stack data visualization feature for a high-volume **ETL pipeline** processing over 1.3 million global scientific literature records.
- Created search and filtering tools via the **pyLDAvis** package, leveraging **React**, **TypeScript**, and **Apollo GraphQL** integrated with **AWS OpenSearch**.
- Designed and implemented a robust **API** using **Flask**, **Python**, **AWS S3**, and **Docker** containerization, reducing visualization loading times by 70% across multiple dense topic models.

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 and WSU.

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 depop*Dash*, a **React** webapp using the **MERN** stack and Pixo's image editing **REST API** to automate product 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.

TECHNICAL SKILLS

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