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**: Todd Laney Scholars Endowment in Computer Science (2023, 2024), Washington Award for Technical Excellence (2023, 2024), Washington Opportunity Baccalaureate Scholar (2024)

EXPERIENCE

Software Engineer Intern   Sept. 2024 – Present
Pacific Northwest National Laboratory (PNNL)   *Seattle, WA*
- Contributed front-end development, web API deployment, and UI design in the Foundational Data Science group.
- Leveraged Airbnb's **Visx** library for a **React-based** application interfacing ML analytics (topic modeling, classifiers) supporting national security and biosurveillance initiatives for federal government agencies.
- Developed a web **API** layer using **Python** and **Scikit Learn/Thiel-Sen Regressor** to aggregate and classify data (100,000+ records) based on trends and seasonality.
- 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*
- Participated in the **DHS-WIRED** national security development program, working within the Translational Artificial Intelligence division at PNNL.
- Created internal search and filtering tools for an **ETL pipeline** processing over 1.3 million records, leveraging **React**, **TypeScript**, and the **pyLDAvis** package integrated with **Apollo GraphQL**.
- Designed and implemented a robust **API** using **Flask**, **Python**, **AWS S3**, and **Docker** containerization, reducing loading times by 70% across multiple dense topic modeling components.
- Contributed to an annual **project report** including a detailed breakdown of features, example use-cases, and future work.

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.

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

TECHNICAL SKILLS

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