

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, 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)

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 pipeline interfacing **ML/AI** analytics for **1.3M+ records**, supporting national security initiatives for federal government agencies.
- Collaborated with **UI/UX** design team to create dynamic visualizations for analytics with **TypeScript** and Airbnb's **Visx** library.
- Deployed a **RESTful API** on **AWS ECS** using **Flask**, **Python**, and **Scikit Learn** to aggregate and classify seasonality automatically, improving tagged metadata accuracy by 80%.
- 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** development and web **API** deployment in the Translational Artificial Intelligence division as part of the **DHS-WIRED** national security program at PNNL.
- Created internal search and filtering tools for an **ETL** pipeline processing **600k+ entries**, leveraging **React**, **Material UI** as the component library, and custom **GraphQL** queries.
- Architected a robust **RESTful API** using **Flask**, **Python**, **AWS S3**, and **Docker** containerization, reducing loading times by 70% across multiple dense corpora of text data.
- Authored a technical **project report** including a detailed breakdown of features and 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 *depopDash*, a **React** webapp using the **MERN** stack and Pixa'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 | *Next.js, React, TypeScript, HTML/CSS, Framer Motion, 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