# Maxwell Steele

509-820-9584 | msteele1@uw.edu | linkedin.com/in/maxwell-steele | github.com/max-steele | max-steele.digital

## Education

**University of Washington** Sept 2023 - Expected June 2026

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

- **Relevant Coursework**: Data Structures & Parallelism, Software Design & Implementation, Database Management Systems, Hardware/Software Interface, Algorithms, Foundations of Computing 1 & 2 (Discrete Math & Probability), Linear Algebra
- **Honors**: 5x Dean's List, 3x Allen School Scholar, 3x Washington Award for Technical Excellence

## Experience

**Software Engineer Intern** Sept. 2024 – Present

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

- Developed sponsored React web applications for federal government agencies with a focus on AI/ML integration in the Foundational Data Science group at PNNL.
- Designed and developed client-facing data visualization tools using Typescript and Airbnb's Visx library for BERTopic-based topic modeling with the goal of extracting insights from large volumes of scientific literature.
- Enhanced core analytics to include seasonal decomposition and classification of time series data; utilized Python, Docker, and AWS EC2 for testing and deployment within a cloud-based ML pipeline.
- Collaborated with UI/UX, DevOps, software engineering, and data science teams to meet sponsor needs using Agile methodologies. Presented live demos, participated in deliverable presentations, contributed to technical project reports, and authored a user guide for the application.

**Software Engineer Intern** June 2024 – Aug. 2024

*Department of Homeland Security (DHS), Pacific Northwest National Laboratory (PNNL)* *Richland, WA*

- Contributed user interface development for scientific web interfaces as part of the Department of Homeland Security (DHS) WIRED national security program at PNNL.
- Created search and filtering tools to query and display results of an natural language processing (NLP) pipeline using React, GraphQL, and data visualization libraries including the pyLDAvis Python library.
- Developed a RESTful API using Flask, Python, and AWS S3 to efficiently process and cache dense text corpora, vectorizers, and Latent Dirichlet Allocation (LDA) models on a cloud-based architecture.
- Authored a technical abstract and project report detailing contributions and NLP concepts used within the project. Delivered a formal presentation at PNNL's Research Symposium.

**Peer Mentor** Sept. 2022 – June 2023

*Washington State University GEAR-UP* *Kennewick, WA*

- Aided students in completing scholarship and financial aid applications.
- 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 program faculty.

## Projects

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

- Developed a web application using the MERN stack and Pixo's image editing API to automate photography editing for retail marketplaces; saved hours of work per week and increased sell-through rates by 20% over six months.

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

## Technical Skills

**Languages**: JavaScript/TypeScript, Python, Java, C, SQL, GraphQL, HTML/CSS
**Frameworks & Build Tools**: React, Next, Flask, Visx, Docker
**Technologies**: Git, GitLab, Jupyter, Linux, Bash, AWS, LaTeX