Adria Retter

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Software engineering graduate student seeking a full-time role. Curious and eager learner with record of research, leadership, and athletics achievement. Experienced with full-stack web development.

EDUCATION

Master of Science (M.S.) – Software Engineering   Anticipated May 2025

Villanova University (Villanova, PA)
- Relevant Coursework: Database Systems, Design and Analysis of Algorithms, Cloud Native App Design & Development, Data Mining & DB Programming, Software Design and Evolution, Software Engineering

Bachelor of Arts (B.A.) - Computer Science, Mathematics   May 2023

Swarthmore College (Swarthmore, PA)
- Relevant Coursework: Data Structures & Algorithms, Computer Systems, Computer Networks, Security & Privacy, Artificial Intelligence, Machine Learning, Theory of Computation

PROGRAMMING SKILLS

Languages: C#, C++, CSS, HTML, JavaScript, LaTeX, Python, Ruby, SQL
Technologies/Frameworks: D3.js, Excel, Git, Linux, jQuery, Oracle, PostgreSQL, Ruby on Rails, Vue.js

EXPERIENCE

Software Engineer Intern (Washington Nationals—Washington, DC)   Jun 2024 - Present
- Develop interactive data visualizations and improve UI for internal scouting web app and athlete management system (Rails, Javascript, Ruby, HTML, CSS).
- Query and manage >1TB baseball statistics database. (SQL, PostgreSQL)
- Collaborate with analytics, R&D, and coaching staff/scouts to ensure functionality and user accessibility.

Lead Fellow (Swarthmore College Writing Program)   Sep 2020 - May 2023
- Performed Python data analytics to inform programmatic improvements, increasing student attendance by 38%.
- Developed curriculum for and provided technical guidance to 15 new associates and 100+ students.

Student Researcher (Swarthmore College Math Department)   May 2021 – Sep 2022
- Completed two 400-hour independent research projects (Knot Theory, Graph Theory).
- Improved technical writing skills by carefully documenting proofs in LaTeX.
- Used critical thinking, consulted relevant literature, and collaborated with professors to find groundbreaking solutions.

PROJECTS

Personal Website (CSS, HTML, JavaScript, jQuery)   Present
- Building a personal website to expand front-end development skills and highlight project work.

Genetic Algorithm for Conway's Game of Life (Jupyter Notebook, Python, TeX)   Nov 2022
- Developed a Genetic Algorithm that found optimal start states for Conway's Game of Life.
- Animated the game board to visualize spatial migration patterns.
- Found 100% of proven optimal start states for boards up to 15x15.

AWARDS/CERTIFICATIONS

Data Visualization Certification (FreeCodeCamp)   Jun 2024
JavaScript Algorithms and Data Structures Certification (FreeCodeCamp)   Dec 2023
Responsive Web Design Certification (FreeCodeCamp)   Nov 2023
National Champion, Discus Throw (NCAA)   May 2023
Gladys Irish Award (Swarthmore College)   May 2023
> "This award is presented to the junior or senior woman who, through her commitment, dedication and the pure enjoyment of her sport, has achieved the highest degree of excellence."