

Sebastian Wiktorowicz

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Education

University of Virginia, Charlottesville, VA

Master of Engineering: Systems Engineering, January 2025 - May 2026

University of Virginia, Charlottesville, VA

Bachelor of Science: Computer Science, August 2022 - December 2025

- GPA: 3.97/4.00 | Minor: Data Science and Applied Mathematics
- Relevant Courses: Data Structures and Algorithms, Discrete Math, Computer Systems and Organization, Software Engineering, Machine Learning, Cybersecurity, Linear Algebra, Multivariable Calculus, Ordinary and Partial Differential Equations

Park View High School, Sterling, VA

Advanced High School Diploma, August 2018 - June 2022

- Class Valedictorian | GPA: 4.70/4.00 | SAT: 1500
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Experience

Research Developer, UVA Health: Minor Lab | <https://proteindiffraction.org/>, Charlottesville, VA, September 2024 - Present

- Engineered improved machine learning models predicting structure of 30K+ protein structures in 3D from Postgres datasets
- Upgraded website displaying 20 TB of 3D proteins from Python 2.7 to 3.12 including writing 15+ enhanced python scripts

Full Stack Software Engineer Intern, AMS Complete, Leesburg, Virginia, May 2024 - August 2024

- Engineered ASP.net core MVC bookstore website as sole developer with a supervisor, including 4 unique projects
- Integrated Entity Framework and MySQL for database; employed C Sharp, Javascript, HTML, Ajax and Nginx for dynamic front-end; leveraged C sharp interfaces for service project controlling data; designed swagger web API to organize customer data
- Cooperated closely with supervisor 30-35 hours per week over 14 weeks to manufacture finished site at end of summer

Teaching Assistant: Computer System Organization Course, University of Virginia, Charlottesville, VA, January 2024 - Present

- Structured and conducted a semester long course about bits, x86-64 assembly, circuits, C, and memory with 500+ students
- Collaborated with professor and 20+ TA's to design and grade homework, exams, labs, and other materials for course

Software Engineering Intern, Evolver + VW/Audi, Tysons Corner, VA, May 2023 - February 2024

- Formulated 250+ Java test cases on JIRA for Audi web design using Mockito, covering UX, data management, and error catching
 - Engineered test cases for over 7 different users on future Audi website operated on AngularJS with team of 20+ engineers
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Projects

Sole Developer, AMSC Store, Leesburg Virginia, May 2024 - Present

- Constructed store as MVC ASP.net core website including unique features for 4 users: Superuser, Admin, Developer, and Client
- Built sample Web API with settings for customer and shopping carts allowing 10+ GET and POST requests leveraging RestSharp
- Utilized C#/Javascript to give users sorting based on 15+ categories and 10+ types, offer fluid paging, and give admin flexibility to add products including 4 different types of prices, wide selection of categories and types, and images related to product

Scrum Master, Campus Confide, Charlottesville, VA, January 2024 - May 2024

- Led a team of 5 engineers to build MVC Django website allowing clients to report issues regarding professors and TAs at UVA
- Implemented Google Authentication for 3 users including Django Admin for database management, Site Admin for finding, checking, reading, and marking reports with comments, and Client for creating detailed reports
- Included features for users to personalize report as well as 3 admin indicators to see where report is in processing

Developer, theCourseForum | <https://thecourseforum.com/>, Charlottesville, VA, September 2023 - Present

- Collaborated in designing Django UVA website used by thousands of UVA students advertising courses, professors, and reviews
- Moved towards implementing an improved beta Q&A section in a team of 10 including a separate main page for all questions along with queries allowing students to filter question threads based on professor, course, department, school
- Compiled and analyzed data from 100+ students regarding website efficacy, filter flags, and incentives for Q&A improvement

Software Developer, Movie Classification, Charlottesville, VA, June 2023 - Present

- Engineered a 10+ layer convolutional neural network to classify 1000+ movie poster images into correct genre
 - Constructed preliminary RGB, brightness and size histograms and bar charts deploying matplotlib, seaborn, and pandas
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Skills

- Software: Java, Python, C, C Sharp, Javascript, R, C++, Ajax, SQL, HTML/CSS, MATLAB, Agile Workflow, CI/CD, ETL, Big Data, Django, ASP.net, ScikitLearn, EF Core, Kafka, Docker, Pandas, Jupyter, TensorFlow, React, Git, Celery, Selenium, Linux
- Organizations: theCourseForum, Project Code, Eastern European Association, UVA MARS, UVA CNS