

Sebastian Wiktorowicz

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Education

University of Virginia, Charlottesville, VA **January 2025 - May 2026**
Master of Engineering: Systems Engineering

University of Virginia, Charlottesville, VA **August 2022 - December 2025**
Bachelor of Science: Computer Science
• 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 **August 2018 - June 2022**
Advanced High School Diploma
• Class Valedictorian | GPA: 4.70/4.00 | SAT: 1500

Experience

UVA Health: Minor Lab | <https://proteindiffraction.org/>, Charlottesville, VA, *Research Developer* **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

AMS Complete, Leesburg, Virginia, *Full Stack Software Engineer Intern* **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

University of Virginia, Charlottesville, VA, *Teaching Assistant: Computer System Organization Course* **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

Evolver + VW/Audi, Tysons Corner, VA, *Software Engineering Intern* **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

Projects

AMSC Store, Leesburg Virginia, *Sole Developer* **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

Campus Confide, Charlottesville, VA, *Scrum Master* **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

theCourseForum | <https://thecourseforum.com/>, Charlottesville, VA, *Developer* **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

Movie Classification, Charlottesville, VA, *Software Developer* **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

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