Daniel Stefanescu

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Education

University of Michigan Ann Arbor, MI
Bachelor of Science in Computer Science and Engineering; GPA: 4.0/4.0 *August 2021 – December 2024*

- **Coursework:** Data Structures and Algorithms, Conversational AI, GPU Parallel Programming, Computer Organization, Discrete Math, Linear Algebra, Programming and Intro Data Structures
- **Honors:** Albert Shih Scholarship Award Recipient, William J. Branstrom Freshman Prize, Deans List and University Honors (Fall 21, Winter 22)

Thomas Jefferson High School for Science and Technology Alexandria, VA
High School Diploma; GPA: 4.50/4.0 *August 2017 – June 2021*

Work Experience

University of Michigan, College of Engineering Ann Arbor, MI
Computer Organization (EECS 370) Instructional Aide *August 2022 – Present*

- Lead a weekly discussion reviewing lecture material and covering practice questions.
- Aid students with projects and problem sets at weekly office hours.

The Aerospace Corporation Chantilly, VA
Software Engineering Intern *June 2022 – August 2022*

- Wrote a Python script to evaluate programming practices in source code by analyzing logger usage within try-catch blocks. Practiced test driven development using an automated unit testing framework.
- Developed an output comparison feature for a satellite data analysis tool implementing a C# .NET framework. Utilized an object oriented approach to produce readable and modular code.
- Built a calendar feature for a war-gaming database tool as an angular component using the FullCalendar library. Utilized Bootstrap and jQuery to create a modal dialog allowing users to add, edit, and delete events.

The MITRE Corporation McLean, VA
Software Engineering Intern *June 2020 – July 2021*

- Developed the back-end REST API for a U.S. Department of Health and Human Services (HHS) app calculating an accessible vulnerability index for disasters using a NodeJS Express framework.
- Implemented a MongoDB database using the Mongoose NodeJS package for data storage.
- Won two individual Spark awards for outstanding work and a team Catalyst award for exceeding client's expectations.

Project Experience

Michigan Mars Rover | *C++, Finite State Machine, Behavior Tree, Git* *September 2021 – Present*

- Program the autonomous navigation system of our team's rover to compete in the University Rover Challenge.
- Develop a search algorithm for efficiently finding a gate post within a possible search area.
- Write code to implement a behavior tree mathematical model to control rover decisions throughout its mission.
- Awarded University Rover Challenge 2022 First Place Prize overall.

Research Assistant | *Python, Selenium, Beautiful Soup, Pandas, Regex* *June 2020 – Present*

- Assist finance professors Veronika Pool (Vanderbilt University) and Clemens Sialm (University of Texas at Austin) on automated financial data retrieval and processing.
- Write Python code to automate scraping tables from web-pages, parsing PDF files for specific table content, formatting data and matching databases for statistical analysis.

Skills

Languages: Python, JavaScript, C++, Java, C#
Frameworks: Node.js, Express.js, React.js, Angular, Flask
Developer Tools: Git, Jira, BitBucket, Confluence, Postman, Docker
Libraries: OpenCV, Tensorflow, Selenium, Beautiful Soup, Pandas, NumPy, jQuery, Mongoose, CUDA
Other Technical Skills: MongoDB, You Only Look Once (YOLOv5), Roboflow, Regular Expressions
Languages: English (native), Romanian (fluent), French (Proficient)