Paula Ionela Luput

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Education

University of Michigan - Ann Arbor   Bachelor of Science (Computer Science)

GPA: 3.7 / 4.0   Graduation: December 2023

Coursework: Data Structures and Algorithms, Computer Organization, Computer Science Theory, Computer Security, Web Systems, Software Engineering, and User Interface Development

Relevant Skills: *(Proficent)*: C++, Python, HTML/CSS   *(Familiar)*: Javascript, SQL, Docker, Figma

Software Engineer Experience

- **SDWAN - CISCO**   *Summer 2023*
  - Strategized and created a C-based project employing an AVL tree to validate new IP addresses from routers and assess their presence in a blocklist.
  - Expanded the team's test suite and collaborated with several engineers to address issues identified in existing tests.
- **Duo Security** (*Blog*)   *Summer 2022*
  - Enhanced various UI details and collaborated effectively within a team, ensuring clear communication and project updates.
  - Implemented a front-end project involving close coordination with the design team and a comprehensive understanding of back-end implementation.
  - Utilized Python, JavaScript, and React for development, creating custom tests for thorough validation against the team's main test suite.

Projects

- **Open Source Contribution (*SerenityOS*)**
  - Collaborated with a partner to implement a open API endpoint for SerenityOS by reading through source code, conducting external research, and communicating with the community on Discord.
  - Utilized pair programming to attain mutual understanding and bug reduction.
- **Instagram Clone (React/Javascript)**
  - Developed a Instagram clone with client-side dynamic pages in React Javascript that runs in the browser and uses asynchronous Fetch API for REST API calls.
- **Machine Learning (*C++*)**
  - Engineered a program that uses natural language processing and machine learning techniques to identify the subject of posts from our course's Piazza with 92% accuracy.
  - Implemented recursion, binary trees, templates, comparators, and maps within the program.
- **Web Attacks (SQL & HTML)**
  - Built a program to exploit vulnerabilities in a website through SQL injection, cross-site scripting, and cross-site request forgery.

Additional Work

- **Cofounder of Michigan Vintage Market**   *Sept 2023 - Present*
  - Founded a monthly sustainable market, designing logos with Adobe Illustrator, organizing events and vendors, and carrying out consistent advertising.
  - Achieved over 7k in sales per event with an 80.79% margin and attained an 11k Instagram reach in the first 3 months of account start.
- **Barista at Sweetwaters Coffee & Tea**   *Jan 2023 - Present*
- **Database Administrator - The DRC**   *June 2019 - Sept 2021*