Amanda Futterman

amanda.futterman@yahoo.com | Old Bethpage, NY | 516-567-7982

OBJECTIVE

Obtain a full-time entry level Software Engineering position post-graduation to expand skills in professional software development

_____

EDUCATION

The Ohio State University, Columbus, Ohio   **Overall GPA (4.00 scale): 3.4**
B.S. Computer Science and Engineering, May 2024
National Buckeye Scholarship and Trustees Scholarship, 2020-2024

_____

QUALIFICATIONS

- **Areas of Expertise:** Knowledge of software engineering fundamentals, design-first applications, mathematical modeling of software and functionality, .NET Applications, QA testing, and component-based software
- **Programming Languages:** Python, SQL, C#, C, Java, x86 Assembly, Typescript, Javascript, HTML, CSS, XML, and Scratch
- **Programming Software**: Pycharm, VisualStudio, VS Code, SQL Server Management Studio
- **Project Development Software:** Azure DevOps, Asana, Gitlab, GitHub, and Slack
- **CSE Coursework:** Computer Software 1&2, Operating Systems 1&2, Foundations of Computer Science 1&2, Video Game Development, Principles of Programming Languages, Advanced DBMS, Computer Networking and AI

_____

WORK EXPERIENCE

Mettler-Toledo, Columbus OH   **May-November 2023**
Software Engineering Intern on the Field Solutions Team

- Experience working on an Agile team and participating in standups, sprint planning, retro plus utilizing Git to create pull requests and work with architects on code review
- Database engineering projects in dynamic SQL including a index fragmentation script to be run along with monthly releases and refactoring of the database to replace unnecessary sequence number tables with Sequences to settle technical debt
- Backend engineering projects solving bug fixes on the technician dashboard software in C# learning end-to-end smoke testing and NuGet packages
- Worked on a project updating a Resource DB Collector communicating to another service through RabbitMQ to cut out a middle-man communicator to increase the systems efficiency

Cedar Pest Software (SaaS Startup), Tarrytown NY   **May-August 2022**
Software Engineering Internship

- Acted as QA engineer engaging firsthand with the Cedar Software product itself, testing merge requests and product builds daily alongside a team of esteemed software engineers
- Learned Swagger Open API for Cedar
- Worked with back-end developers to produce multi-tenancy authentication and unauthorization, wrote license plate validation scripts, and payment processing code
- Worked with front-end developers to generate UI components, create storybooks, and implement bug fixes

_____

ACADEMIC ENGINEERING PROJECTS

Bits and Books Database
- I learned the basics of DBMS along a group of peers modeling and creating a database for a mock bookstore
- This semester long project in Introduction to Databases (CSE 3241) we developed an entity diagram which we transformed into a relational schema then performed data cleanup & population followed by data analysis to a DB including through documentation

Tokenizer, Parser, Printer, Executor for Core
- Alongside the Principles of Programming Languages (CSE 3341) Coursework, I implemented a Scanner for a programming grammar called "Core" made up by the professor to test our abilities to tokenize and interpret code files in this language
- The project consists of writing a tokenizer to read a line, tokenize it, parse it, print it and then execute the code using the Deterministic finite automator approach

Super Mario Bros Executable Game
- I worked with a small software development team of 4 peers over the course of 5 sprints using the Agile framework through Microsoft DevOps to develop a Super Mario Bros level 1-1 alongside the CSE 3902 coursework
- Learned Visual Studio, C#, Design Patterns, and Github.
- I worked specifically on Mario blocks, koopa troopas, game state, and collision detection implementations

---

ACTIVITIES AND INTERESTS
- Social Media Coordinator of the Association of Computing Machinery Women's Chapter (AMC-W), 2023-Present, Member 2021-Present
- Member of Competitive Programming Club (CPC), 2021-Present
- Alpha Gamma Delta Sorority Social Chair, 2022-2023, Member 2021-Present
- FIRST Robotics (FRC) Vice President of Team 353, 2019-2020
- Coding Club Founder and Co-President 2018-2020
- Personal hobbies include reading sci-fi, mental health advocacy, thrifting, and writing poetry