Emma Luukkonen

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EDUCATION

UNIVERSITY OF MICHIGAN, Ann Arbor, MI
Major: Computer Science, Minor: Physics
- Expected graduation in May 2022
- CS Coursework: Data Structures and Algorithms, Artificial Intelligence, Computer Architecture

CHARLOTTE HIGH SCHOOL, Charlotte, MI
- Valedictorian of my graduating class
- National Honor Society President
- Girl Scout Gold Award
- Marching/Symphony Band Section Leader

INTERNSHIP EXPERIENCE

ALLY FINANCIAL, Detroit, MI
AIOps Intern, June 2020 – August 2020
- Streamlined capacity and storage reporting by automating virtual machine data analytics using REST APIs
- Created a Python script to parse capacity data from VMware vRealize Operations (vROps) in JSON format
  - Combined this data with data from other sources such as ServiceNow and Unisphere to create a real-time, comprehensive view of current capacity utilization and storage usage
- Utilized ServiceNow reporting feature to create an automated data pipeline into MS Teams and Power BI to improve the process of allocating, buying, and managing storage and memory
- Developed a capacity reporting dashboard in Power BI for storage, memory, CPUs, and RAM data
  - This dashboard contained information on current utilization and a predictive forecasting model for future utilization trending, calculated using DAX (Data Analysis Expressions) measures in Power BI
- Increased awareness of efficient capacity management by presenting my project work to senior leadership
- Communicated with key stakeholders and other team members to spearhead the capacity project based on team needs
- Gained experience in Python, Power BI, REST APIs, Postman, VMware, ServiceNow, BigPanda, Visual Studio Code

PROMODEL CORPORATION, Ann Arbor, MI
Software Development Intern, May 2019 – August 2019
- Optimized new web-app testing by implementing an automated testing suite using Selenium
  - Utilized TeamCity to run regression tests triggered by new Sourcetree commits; the results of these tests were reported via TeamCity through Slack and email.
- Improved two web applications by updating information, organizing pages, and fixing bugs on the front-end side
- Integrated a "help" page and web documentation for two ProModel customer-facing web applications using HTML, CSS, and Markdown
- Gained experience in C#, Frontend Web Development, Automated Testing, Agile Development, JIRA, Selenium WebDriver

SOFTWARE PROJECTS

Personal Website: http://emmaluukkonen.com/
Mancala: Artificially Intelligent Gameplay
- Implemented a single and multi-player Mancala gameplay in C++, using the Minimax algorithm with alpha-beta pruning for an AI-based single player response

Sudoku Solver
- Implemented the AC-3 algorithm in Python to solve Sudoku puzzles based on arc-consistency between neighboring squares

Log Manager
- Program in C++ to parse error log files and allow the user to query based on timestamp, category, or keyword

CORE SKILLS

- Languages (proficient): C++, C, Python, HTML/CSS (familiar): C#, Java, JavaScript
- Tools: Xcode, Visual Studio, Selenium, Power BI, GitHub, PowerShell, REST API, Postman, BigPanda, VMware, Markdown, PyCharm, Matlab