

Emma Luukkonen

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EDUCATION

University of Michigan, Ann Arbor, MI

Expected Graduation: May 2022

- **Major:** Computer Science, B.S.
- **Minor:** Physics
- **Relevant Coursework:** Data Structures and Algorithms, Artificial Intelligence, Computer Architecture, Discrete Mathematics, Data Analysis and Statistics, Foundations of Computer Science

INTERNSHIP EXPERIENCE

Software Engineering Intern

Ally Financial

June – August 2020

- Automated capacity and storage reporting data flow using REST API scripts
- Implemented a Python script to parse capacity data output in JSON format
- Developed a dashboard in Power BI for storage, memory, CPUs, and RAM data using Data Analysis Expressions (DAX) calculations
- Utilized ServiceNow reporting feature to automate the flow of data into MS Teams and Power BI
- Improved the process of allocating, buying, and managing storage and memory
- 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

Software Development Intern

ProModel Corporation

May – 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
- Improved two web applications by updating information, organizing pages, and fixing front-end bugs
- Implemented backend web-application unit tests in C#
- Integrated a “help” web page and web documentation for two customer-facing web applications using HTML and Markdown
- Collaborated with a team of full-time developers and other interns to create, test, and deploy two web-applications
- Gained experience in C#, front-end web development, automated testing, Agile Methodology, JIRA, Selenium WebDriver

SOFTWARE PROJECTS

Personal Website: <http://www.emmaluukkonen.com/>

GitHub: <https://github.com/luukkoe>

Mancala: Artificially Intelligent Gameplay

- Implemented a single and multi-player Mancala command-line game, utilizing artificial intelligence algorithms

Log Manager

- Created a scalability-focused command-line program to parse error log files and support queries based on timestamp, category, and keyword

ACTIVITIES

Facebook Above and Beyond Computer Science (ABCS 2020) Program

- Participated in Facebook’s 10-week data structures and algorithms and interview-prep program

Michigan Hackers iOS Development Team

- Participate in weekly “hack nights,” where we learn about and develop iOS mobile apps using Swift
- Currently implementing a fitness-tracker iOS mobile app

Girls in Electrical Engineering and Computer Science (GEECS)

- Club to foster a community of women in CS, focusing on career prep and academic support through mentorship

SKILLS

- **Software** (proficient): C++, C, Python, HTML/CSS, Git, Power BI (familiar): C#, REST APIs, Selenium, LaTeX, RStudio, Matlab, PowerShell