

Emmeline Pearson

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EDUCATION

M.S. in Computer Science from Drexel University - Philadelphia, PA - March 2024

B.S. in Computer Engineering from Case Western Reserve University - Cleveland, OH - May 2019

SKILLS

- Coding Languages: C#, Java, Python, SQL, MongoDB, TypeScript, JavaScript, Arduino, MATLAB, and HTML/CSS.
- Frameworks/Technologies: Flask, Angular, React, Node.js, Vue.js, .NET, and Bootstrap CSS.
- Development Tools: Git/GitHub, TFS, Visual Studio, Jira, Agile, Scrum, Postman, Microsoft SQL Server Management Studio (SSMS), SQL server, Jenkins, Linux, and Playwright.

EXPERIENCE

MRI Software

Solon, OH

Full Stack Software Engineer (October 2023 to Present)

- Designed, developed and maintained features for an Angular web application used for report processing.
- Collaborated with product managers, test and DevOps teams to deliver the app all the way to production.
- Led research and wrote technical documentation on a new set of features for a custom check tool.
- Debugged and refactored code to resolve issues, optimize reliability and enhance performance of the app.

Software Engineer Intern (May 2023 to August 2023)

- Updated a relational database, to improve export functionality, and achieve parity with an existing solution.
- Led research on playwright, a tool for creating automated web application testing. Presented a comprehensive demo for the team and created a detailed tutorial for future use.
- Managed finances for intern driven fundraising projects which successfully raised over \$12,000.

Rockwell Automation

Cleveland, OH

Embedded Software Engineer (July 2019 to July 2022)

- Engineered safety and security-critical embedded software features in C++ for programmable logic controllers (PLCs) within a collaborative 6-person agile development team.
- Designed and developed firmware features for real-time, multi-threaded systems in high-availability industrial automation products, enhancing the reliability and maintainability of controllers.
- Implemented automated functional, development and unit tests to ensure firmware functionality and the highest code quality, using Python and C++.

Cerner Corporation

Kansas City, MO

Software Engineer (May to August 2018)

- Created an OAuth secured login page for an internal patient web API using Java, and Spring framework.
- Presented project outcomes in a cross-group meeting with global partner teams at the end of the summer.
- Mentored a high school student, guiding him through learning Java for his project.

Case Western Reserve University

Cleveland, OH

Undergraduate Researcher (January 2017 to May 2019)

- Advanced prototype for a Cystic Fibrosis detection device for infants as part of a multi-disciplinary team.
- Created a more precise data processing technique using sovitsky-golay filtering and parabolic interpolation.
- Translated the data processing code from MATLAB and Arduino based into C++, facilitating the downsizing of the device into a handheld size (using a microprocessor) rather than a full-sized computer.

ORGANIZATIONS

- Society of Women Engineers (SWE) - January 2020 to Present
- Elected member of Student Leadership Council on Climate and Sustainability - August 2023 to March 2024