Daniel Helmer

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# Education

**New Jersey Institute of Technology** Newark, NJ

*BS in Computer Science, Minor in Information Technology Expected Dec. 2025*

# Experience

**Software Engineer Intern** June 2024 – August 2024

*Prudential Financial Newark, NJ*

* Built and deployed internal application for non-technical employees to request information from AWS EventBridge using Python and AWS APIs with boto3 library
* Interfaced above application with simple UI dashboard using Node.js and React
* Participated in yearly intern hackathon to create an application based on specifications with fellow interns and compete against others

**Software Engineer Co-op** Sep. 2023 – Dec. 2023

*Prudential Financial - Server operating system team Newark, NJ*

* Developed Python script to notify product owners of server commission status by parsing JSON file using regex and piping it to Salesforce
* Build applications ensuring that the code follows latest coding practices and industry standards, using company design patterns and principles
* Collaborate with product owners in understanding needs and defining feature stories
* Attend daily standup using agile software methodology

**Test Automation Intern** May 2023 – August 2023

*Sunbird Software Piscataway, NJ*

* dcTrack, accurately tracks assets, presents space, power, and network connectivity, 3D visualizations of data centers for companies like H&M, Disney+, eBay, and Merck
* Developers create, maintain, and add new features to dcTrack, the QA team executes manual tests, while the Test Automation team automates them
* Create automated regression and feature tests, using Selenium and Robot Framework to ensure features of dcTrack behave as expected
* Utilize Python to create new keywords to be used in automated tests
* Investigate failing tests due to bugs, interface changes or new product requirements
* Use Github to create pull requests to be merged, look over others for mistakes and errors
* Collaborate with other engineers to implement automation of complex tests
* Attend weekly standup meetings to share progress and discuss build failures with developers and other test automation engineers

# Projects

**Discord Music Bot** *| Python, Discord API, FFmpeg, youtube-dl* March 2023

* Developed a personal discord music bot after commercial ones were removed, using python and deployed to a hosting service
* Downloaded and converted music from YouTube videos through youtube-dl and FFmpeg to be streamed in audio channels for users

**Lexical Interpreter** *| C++* Oct. 2022 – Dec. 2022

* Built a fully functional lexical interpreter for a small programming language using C++ for a compilers class
* First built a lexer (Tokenizer) to get tokens of program, created a parser to make an AST and enforce grammar rules, finally made an interpreter to execute the program

# Technical Skills

**Languages**: Java, Python, C/C++, Bash, SQL, HTML

**Frameworks**: Selenium, Robot Framework

**Developer Tools**: Git, GitHub, Jira, Jenkins, VS Code, Visual Studio, Eclipse

**Operating Systems**: Linux (Ubuntu, Red Hat, WSL2), Windows, MacOS