Emily Perica

5th Year Software Engineering Co-op Student
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Education

McMaster University Sept 2020 – Present
Bachelor of Engineering in Software Engineering *Hamilton, ON*
CGPA: 3.4

Experience

Wealthsimple May 2024 – Aug 2024
Security Intern *Toronto, ON*
- TBD

SOTI Jan 2023 – Aug 2023
Software Developer Intern *Missisauga, ON*
- Using MVC architecture and ASP.NET, developed an internal tool for company-wide use to increase efficiency in discovering errors unknowingly introduced by developers into the backend. Reduced time spent on error discovery by 50%, and reduced cost of resources used by 75%.
- Using Agile methodology, participated in daily standups, code reviews, and sprints with Jira and Git.
- Performed API testing and wrote unit and integration tests for BDD in Cucumber and C# to a company-wide CI/CD Jenkins pipeline.

Extracurriculars

McMaster EcoCAR Oct 2022 – Present
Path Planning Algorithms SME
- Acted as the Path Planning Subject Matter Expert for the Connected and Autonomous Vehicle (CAV) subteam, providing support for 10 subteam members.
- Developed documentation for the Connected and Autonomous Cruise Control (CACC) subsytem to be implemented on a Cadillac Lyriq, receiving 1st place amongst 13 teams.
- Researched and implemented (in Python) Lane Centering and Intersection Navigation algorithms for use within the CACC subsystem.

Software Engineering Society Mar 2022 – Present
VP Academic
- Liaised between students in the Software Engineering department and the faculty, representing and advocating for student voices.
- Organized and ran various Professional Development events, including a Co-op Panel.
- Attended and provided reports at weekly society meetings, collaborating with other executive members.

Projects

Sumobot Dec 2020 – Apr 2021
- Built, wired, and programmed an autonomous 'sumobot' to compete against other robots in a competition where the goal is to push the other bot out of a ring.
- Programmed an Arduino to control a servo motor based on input from various sensors.
- Won the Creative Design award in the McMaster Sumobot Competition.

Illuminate (Android App) Feb 2022
- Using Dart with the Flutter framework, developed a mobile application within a team for providing female identifying individuals with information on women's health.
- Won within the "Seeing the future" category

Technical Skills

Languages: Java, Python, C#, C/C++, Ruby, SQL (MSSQL), R, MATLAB
Frameworks: JUnit, Pytest, Cucumber, Rails, ASP.NET
Developer Tools: Git, Docker, Jenkins, Github Actions, Jira