Emily Kozatchiner

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Technical Skills:

Languages: Java, C, Python, C#, Matlab/Simulink, VBA
Task Management: GitHub, Linear, Slack, Trello
Operating Systems: Linux, Microsoft
Other: Unit testing, Agile, AWS, Docker, Terraform, SQLite, API

Extra-Curricular Experiences:

Waterloo Canadian Computing Competition (Feb. 2018 + Feb. 2019)

- Competed in both Junior (2018) and Senior Level (2019) individually in Java

Highschool Computer Science Club (2017 – 2018

Passions:

- Photography – capturing and editing vistas as a creative outlet.
- Tennis – played on the Guelph varsity team in university (2021).
- Reading - interest in broadening vocabulary and storytelling.

Employment:

DevOps/SRE Intern at Squaredance (May - Sept. 2022)

- Worked on troubleshooting existing bugs and developing supportive scripts/projects to improve workflow
- Worked on populating, cloning, and sanitizing databases from production using SQLite and S3
- Established start-up environments via codespaces and prebuilds to be suitable to the FE team environment

Software Embedded Engineer Co-op at Skyjack Inc. (Oct - Dec. 2022)

- Built MEWP functionalities using logic circuits in MathWorks for ECU development
- Updated virtual dashboard design in Simulink and ensured speedgoat's signal processing logic was effective for test harness

Highlighted Projects:

Monthly Statistics Bot (2022)

- API script used Cloudflare to get http statistics on a monthly basis and output changes using a slack webhook
- Worked with AWS Cloud to containerize scheduled batch job with Docker and keep batch infrastructure on the Terraform Cloud
- Cataloged and stored in S3 to ensure that high-leveled staff are inclined to make optimal decisions with future projects

Tech utilized: AWS (S3), Docker, Terraform, GitHub Actions, Sqlite, Cloudflare

Portfolio Investment Manager (2021)

- Produced a working graphical user interface utilizing class structure capable of organizing and updating a user portfolio with dynamic input.
- Used encapsulation/abstraction to minimize the publicity of objects

Tech utilized: Java, Javadoc, Swing/Awt libraries, GUIs, Code Design.

COVID-19 Analysis Project (2021)

- Conducted data analysis on multiple government data sets to determine the rate of change of PHU status across different municipalities in Ontario.
- Program that manipulates data from datasets and produces plots to affirm hypothesis on impact of spread through geolocation
- Incorporated sprints, stand-ups, role assignment and repositories for team organization.

Tech utilized: Python, Trello, Agile, Documentation.

Matrix Multiplication Project (2021)

- Created a program which receives a global matrix structure as input and is transformed by linked scripts.
- Learned and applied Git workflow basics to develop via class collaboration and merged onto a final branch.

Tech utilized: C, GitHub, Design document, Testing.

Education:

Bachelor of Computing, Software Engineering Co-op (2020 - 2025)
University of Guelph - Guelph, ON, Canada

- Maintaining an 80%+ average