Emily Kozatchiner

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Technical Skills:

Languages: Java, C, Python, HTML, CSS, C#, SQL, Matlab

Frameworks: Angular, Spring Boot

DevOps: AWS, Docker, OpenShift, Helios

Task Management: GitHub, Linear, Slack, Trello

IDE: VSCode, Eclipse, IntelliJ

Other: SQLite, Apache Maven, Terraform, Unit testing, API

Education:

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

- Maintaining an 85%+ average

Goals:

My internship objective is to immerse myself in the dynamic world of software engineering. I aspire to grow through hands-on experience with cutting-edge technology and frameworks that are shaping the industries of the present.

By directly contributing to the active development of the software pipeline, I aim to contribute my willingness to learn to craft efficient, user-centric solutions.

Passions:

- Photography – capturing and editing vistas as a creative outlet.
  📷 /kozatch_shots

- Tennis – played on the Guelph varsity team in university (2021).

- Reading - interest in broadening vocabulary and storytelling.

Employment:

Application Developer Co-op - RBC | May-Sept. 2023
- Enhanced server-side logic by optimizing code flow in Spring Boot, while utilizing Helios (CI/CD) for containerized testing
- Implemented UI additions/changes built on Angular during phase 3 development
- Collaborated across a diverse range of technologies (Dynatrace, Splunk, s5cmd, OpenShift) to address challenges, learn new software, and enhance workflow

Software Embedded Engineer Co-op - 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 the test harness

DevOps/SRE Intern - 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

Highlighted Projects:

TradeCapture Application | RBC - 2023
- Manipulated back-end to add client requests for new data in the trade table
- Scanned through all UI screens to ensure accessibility guidelines were followed
- Implemented text-to-speech functionality for added features (buttons, drop-downs)
- Located 1.5 million objects from S3 that were degrading performance for QA, resolving and communicating the issue before a major impact

Tech utilized: HTML, CSS, Java, Typescript, Angular, Spring Boot, Confluence, AWS

Molecule Application | 2023
- Built a full-stack application with a web server displaying a 3-dimensional generated model of a molecule structure given a chemical formula
- Created a c library holding the molecule structures which got wrapped in a Python program calculating display points for the SVG files
- Created SQL database accompanying the Python code to store the molecules, elements, bonds, and atoms allowing a dynamic webpage

Tech utilized: C, Python, HTML, CSS, Javascript, SQL, SVGs

Monthly Statistics Bot | Squaredance - 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 jobs with Docker and keep the batch infrastructure on the Terraform Cloud
- Cataloged and stored in S3 to ensure that high-level staff are inclined to make optimal decisions with future projects

Tech utilized: Python, 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.