

Amélie Butler

St. John's, NL

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Education

Memorial University of Newfoundland

Bachelor of Arts in Computer Science - 94% Average

St. John's, NL

September 2021 - Present

Skills

- **Fields:** Web Development, Data Science
- **Languages:** Python, HTML, CSS, JavaScript, Typescript, Ruby, C, Java, SQL, Bash, PHP
- **Tools and Libraries:** NPM, Git, Jira, JUnit, Swing, Discord API, Docker, Astro, TensorFlow, Pandas, Numpy, Seaborn, QGIS, React, Node.js, Tailwind CSS, AWS Lambdas, Datadog, Bitbucket Pipelines
- **Relevant Courses:** Data Structures and Algorithms, Discrete Mathematics, Software Development, OS Design

Work Experience

HeyOrca

Software Development Intern

Remote

January 2024 - Present

- Developed graphing systems for user-facing analytics data, managing backend queries to third-party APIs, calculating, plotting and displaying analytics for end users
- Designed and implemented backend systems including new operations on PostgreSQL databases, AWS Lambda code, Laravel task scheduling and PDF generation
- Coordinated with a remote team across multiple countries and timezones, managing my own projects mostly independently

Canadian Department of National Defence

Web Developer

Remote

June 2023 - December 2023

- Created static front-end webpages using Microsoft SharePoint
- Maintained and made upgrades to sites on private intranet, ensuring near-100% uptime
- Resolved dozens of backlogged back-end bugs, non-disruptively modifying and extending existing logic
- Obtained reliability status as part of job requirements

Memorial University of Newfoundland

Computer Science Teaching Assistant

St. John's, NL

September 2022 - April 2023

- Clearly and concisely delivered programming labs to over 100 students
- Resolved questions and concerns from students and other lab staff
- Provided useful feedback on student work submissions
- Prepared additional instructional material outside of contracted time to ensure student success

Projects

AmeSite | HTML, TypeScript, Astro.js, React, FastAPI, Tailwind CSS, Docker, React Query, Vercel

Current

- Produced a website using React Query and Tailwind CSS
- Composed a web app to query and display information regarding up to 11 million celestial bodies
- Generated queries to the Simbad astronomical database through a Python script ran with FastAPI
- Deployed site with Astro.js and set up cloud hosting through Vercel

Parrot | Python, TensorFlow, Numpy

Summer 2023

- Built a Discord bot in Python that trains a recursive neural network on a user's messages in a chat room
- Implemented a text generator capable of mimicking users' typing habits using TensorFlow and Numpy
- Improved training times from multiple days to less than 24 hours per person on average
- Cleaned and parsed a database of messages containing over 1 million messages