

Zachary Batten

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EDUCATION

Memorial University of Newfoundland

Jan. 2019 to Current

B. Science, Computer Science Major

Experience

Event Coordinator

Sept. 2020 to Sept. 2022

Computer Science Society

- Arranged events for students and faculty to meet peers
- Led workshops and game nights for CS students
- Met with other executives biweekly to help decide the future of the society and future events

Logistics Lead

Oct. 2020 to Feb. 2022

Hack Frost NL

- Joined the team in the early stages and helped with the early ideas
- Led a small team to organize the logistics for the first two hackathons (2021 and 2022)
- Set weekly goals for the team at meetings
- Worked with external companies to provide products and services for the hackathons
- Provided continuous updates to Hack Frost's websites

PROJECTS

Patio Teams

July 2022

techNL Hackathon

- Team was voted first place by a team of judges
- Conceptualized the idea for our project, which the rest of the team voted in favour of
- Worked within a multidisciplinary team to co-produce the project and the presentation
- Helped create and present a social media app for developers to find developers to collaborate with for business ideas or side projects

Personal Site

- Designed and implemented a clean and responsive personal website utilizing React and Material-UI.
- Followed best practices for project setup and development using Node.js and npm, along with regular updates and maintenance using Git.

MuseGenAI

- Developed a Music Generator, MuseGenAI, using the GPT-4 and GPT-3 Turbo AI engines from OpenAI.
- Takes input for musical style, genre, number of notes, and selection of instruments.
- Implemented an adjustable creativity level via a temperature slider that influences the output.
- Generates MIDI files which could be downloaded and played and directly within the application.
- Developed using Python, Flask for backend, React for frontend.

SKILLS

- **Language experience:** Python, Javascript, C++, Java
- **Libraries & Framework:** Flask, Node.js, Pandas, JUnit, Scrapy and React
- **Technologies & Tools:** AWS, PostgreSQL, Windows, Docker, and Linux.
- **Softskills:** Problem-Solving, teamwork, open to criticism and time-management