

EDUCATION

University of McGill BSc Computer Science	GPA: 3.57/4.0	Jan 2022 - May 2024 Montreal, Canada
University of Concordia BSc Computer Science	GPA: 4.12/4.3	Sep 2020 - Aug 2021 Montreal, Canada
University of McGill Gr. Clinical Research Diploma	GPA: 3.97/4.0	Sep 2019 - May 2020 Montreal, Canada
University of Balamand BSc Biology	GPA: 3.76/4.0	Sep 2014 - June 2018 Koura, Lebanon

EXPERIENCE

Software Engineering Intern	Flare Systems, Montreal	Sep. 2021 – Dec. 2021
<ul style="list-style-type: none">Responsible for code base maintenance within Flare's own application, Firework, including bug fixes and code re-writing.Fixed UI issues such as wrong URLs, malfunctioning feeds, and broken buttons/links thus enhancing the user experience.Added several UI features to Firework like copy/paste button functionality, query-based highlighting, and new data feedsAutomated admin login by loading necessary usernames/passwords of disconnected sessions from the backend (using Vue JS), allowing for a quick login without the need for copying any credentials.Designed and edited necessary tests for bug-fixes before running them through a GitLab CI/CD pipeline.		
Virtual TechEd Intern	CEED Concordia, Montreal	Jan. 2021 – Apr. 2021
<ul style="list-style-type: none">Mentored a class of 30 middle-school students in Gulu, Uganda about the basics of computer use, Microsoft Office, and Python through online tech workshops and by writing them a visual handbook.		
R&D Intern: AI Crypto Project	AI Launch Lab, Montreal	Jun. 2021 – Aug. 2021
<ul style="list-style-type: none">Processed the crypto-stock market dataset and extracted relevant financial indicators such as MACD, RSI, SMA, and EMAApplied classification algorithms on the processed data to categorize stocks as bearish, bullish, or neutral.Compared the efficiencies of different AI models (ex: Regression, LSTMs, and KNNs) in predicting future stock prices.		
Head of Publicity	Concordia Game Development Club, Montreal	Feb 2021 – Aug. 2021
<ul style="list-style-type: none">Managed all the social media platforms for the club and wrote 5 articles for the club magazine		

PROJECTS

COVID-19 detection through Chest X-rays (*McMed Hacks Hackathon Winner*)

- Designed a Convolutional Neural Network that classifies chest X-Rays as COVID-positive with an accuracy of around 90%.
Tools: Python/Google Colab, KERAS, Matplotlib, NumPy, Pandas, Seaborn

Ringtonify App

- Designed a ringtone maker using AWS services (Lambda, S3, Amplify) + React JS.
- Used AWS Lambda to host the main python code so that scaling and maintenance are done automatically.
- Setup Amazon S3 buckets to store the audio files and automatically clip them into ringtones.
- Designed a frontend UI using AWS Amplify that allows users to upload and download mp3 files to and from S3.
- Setup AWS Amplify on the frontend to force authentication through email.

Languages: Python, React JS, Node JS, HTML, CSS

Tools: AWS Lambda, AWS S3, AWS IAM, AWS Amplify, AWS CLI, AWS Cloud-watch, VS Code

Juke-Box Web App

- Built a Spotify-connected web app that allows multiple clients to search for and push songs to one hosting music player.
- Designed the front-end UIs for both Client and Host users such that:
 - Clients can easily access Spotify's database of songs without needing to authenticate their accounts.
 - Hosts can play the songs, display the next songs in queue, and show you the lyrics of the playing track.
- Designed the backend using Express.js and Mongo DB such that Spotify tracks can be pushed by any Client to a database and then popped automatically once a track has finished playing.
- Used an AWS EC2 instance to host the client-side web app on <http://jukeboxapp.net>.

Languages: React JS, Node JS, HTML, CSS

Tools: Express, Mongo DB ATLAS, AWS EC2, NPM, Spotify-Web-API-Node, Lyrics-Finder API, POSTMAN, VS Code

Daily Fortune App

- Designed a full-stack app (MERN) that sends daily fortune messages to clients through email.
- Built the backend using Docker, Python, and a MongoDB database that holds all the recipient emails.
- Built the frontend using ReactJS and Mongoose to allow easy subscription to the fortune mailing list.

Languages: Python, React JS, Node JS, HTML, CSS

Tools: Express, Mongo DB, Mongoose, AWS EC2, NPM, DOCKER, SMTP, POSTMAN, VS Code

SKILLS

- Languages:** Java, Python, React JS, JavaScript, Node JS, C, Bash, GIT, NoSQL, HTML/CSS, Typescript, Assembly, AWK
- Tools:** AWS (EC2, S3, Lambda, Amplify, CloudWatch), MongoDB, Unix/Linux, Express, NPM, GitHub, Postman, Docker