

CHARBEL TANNOUS

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Education

Concordia University

Sep. 2022 – Present

Bachelor of Engineering in Software Engineering (GPA: 3.35/4.3)

Montreal, QC

Relevant Coursework

- Data Structures
- Software engineering
- Machine Learning
- Web Programming
- OOP
- Systems Programming
- Probability and Statistics
- Operating Systems
- Software Architecture
- Software Methodology
- Artificial Intelligence
- Quality Assurance

Experience

Healthcare Systems R&A

September 2023 – December 2023

Machine Learning Intern

Montreal, QC

- Developed and implemented various machine learning models, including a custom bagging neighbor model, achieving a 77% validation balanced accuracy for a cardiac catheterization project.
- Utilized SMOTE and SMOTE-ENN techniques to address class imbalance, improving model performance by 15%.
- Applied dimensionality reduction techniques (PCA, Isomap) and optimized model performance through cross-validation and Bayesian optimization.
- Developed a PyTorch neural network model to predict adverse heart conditions, achieving 85% accuracy through advanced optimization techniques and RayTune for hyperparameter tuning.

OSL Retail Services

February 2022 – June 2022

Sales Associate

Montreal, QC

- Acquired extensive knowledge of over 50 different mobile phone models and networks of Canada, such as Bell, Telus, and Rogers.
- Assisted and advised an average of 16 customers per shift, resulting in a 78% customer satisfaction rate
- Utilized my strong sales and communication skills to effectively market and sell mobile phone products to customers

McDonald's

October 2021 – February 2022

Crew Member

Montreal, QC

- Efficiently managed multiple tasks in a fast-paced environment, consistently meeting or exceeding service time targets while handling up to 100 customer orders per hour.
- Collaborated effectively with a diverse team to ensure smooth operations during peak hours, demonstrating strong adaptability and communication skills.
- Demonstrated quick learning and adaptability by learning new procedures and technologies, including digital ordering systems and mobile app integration.

Projects

WordLeable | JavaScript, HTML, CSS, REST API, Postman

January 2023

- Architected and developed a responsive web-based word game using vanilla JavaScript, HTML, and CSS
- Implemented RESTful API integration using Fetch API, reducing invalid word submissions and enhancing overall user experience.
- Designed an interactive feedback system using DOM manipulation
- Utilized Git for version control, and deployed the application using GitHub Pages for continuous delivery.

Pup Storm | HTML/CSS, JavaScript, PHP, MySQL, Microsoft Azure, Heroku

July 2023

- Engineered a full-stack pet adoption platform using PHP for server-side logic, MySQL for data persistence, and deployed on Azure and Heroku.
- Implemented secure user authentication and authorization system using PHP sessions and password hashing.
- Developed a responsive front-end using HTML5, CSS3, and JavaScript, ensuring cross-browser compatibility and mobile responsiveness, resulting in a 25% increase in mobile user engagement.
- Integrated external APIs (DogAPI) using cURL in PHP to dynamically generate pet images, improving user engagement metrics by 35%.

Technical Skills

Languages: JavaScript, Python, Java, C, HTML/CSS, PHP, Clojure, Erlang, Lua

Developer Tools: Microsoft Azure, Git, GitHub, Supabase, Vercel, Firebase

Technologies/Frameworks: PyTorch, Pandas, React, Node.js, NextJS, Tailwindcss, Numpy/Scipy, Scikit-Learn