

ALAN MATTHEW VADLAKUNTA

alanvadolakunta@gmail.com | +1 518-772-2866 | USA and Canada Citizen

[in LinkedIn](#) | [🌐 Personal Website](#)

EDUCATION

Bachelor of Engineering - Software (SWE)

Sep 2020 - May 2024

Concordia University

Montreal, QC

Relevant Coursework: Machine Learning, Artificial Intelligence, Computer Vision, Big Data Analytics, Object Oriented Programming, Data Structures & Algorithms, Databases

SKILLS & INTERESTS

Programming Languages	Python Java JavaScript TypeScript SQL HTML CSS
Technologies	React.js Next.js Node.js Flask Tailwind MySQL GitHub Docker
Languages	English French Fully Bilingual
Interests	3D Printing Photography Drones Music Production

EXPERIENCE

National Bank Financial Markets

May 2024 - Present

Analyst - ETF & Algorithmic Trading

Montreal, QC

- Converted message queue infrastructure to FIX protocol to streamline communication and reduce order execution latency by 60%.
- Implemented robust file parsers to process data from over 30 issuers with varying file formats.
- Monitored multiple production applications, resolving issues to prevent disruptions to trading operations.
- Utilized: Java, Python, PostgreSQL, SQL, Git

Software Developer Intern

Montreal, QC

- Implemented comprehensive module to track and manage DMA and Give-ups agreements and payments.
- Designed and implemented React.js state machine to monitor component states and mitigate callbacks.
- Automated invoice generation to accelerate billing process.
- Utilized: Python, React.js, TypeScript, Flask, SQL, Git

ARDXX

May 2023 - Aug 2023

Software Developer

Remote - Herndon, VA

- Involved in converting Angular.js platform to React.js for better performance and support.
- Implemented role-based user management and defining permissions to control application access.
- Developed a bulk import feature to efficiently integrate and process data from multiple vendors.
- Utilized: React.js, Java, Jenkins, MySQL, GitLab

Sofvie

Jan 2023 - May 2023

Big Data Engineer Consultant

Montreal, QC

- Designed machine learning algorithms to help increase employee training completion rate.
- Implemented K-Means and Hierarchical Clustering to find shared traits in employees with high training completion rates.
- Optimized complex SQL queries to fetch employee information from MySQL database.
- Utilized: Python, Jupyter Notebook, Scikit-Learn, Seaborn, MySQL, Pandas

ARDXX

May 2022 - Aug 2022

Software Developer

Remote - Herndon, VA

- Involved in converting Angular.js platform to React.js for better performance and support.
- Converted Animal module to React.js.
- Implemented dynamic query building to build SQL statements based on user selections.
- Utilized: React.js, Java, Jenkins, MySQL, GitLab

PROJECTS

CommunityGrid

Sep 2023 - May 2024

Electric Vehicle Charge Optimization System

- Implemented building administrator dashboard to allow the management of charging stations.
- Designed and developed user onboarding process to allow users to sign up and use the app.
- Developed root user functionality enabling community, user, charger and vehicle management.
- Automated end-to-end tests using Cypress to streamline testing processes.
- Utilized: Next.js, TypeScript, JavaScript, Python, Cypress.io

HIREME

Jan 2023 - May 2023

Social Networking Application

- Lead and managed a team of 9 junior developers to build a full stack web application using React.js.
- Created CI pipeline using Cypress and GitHub Actions to allow continuous testing.
- Improved CI pipeline runtime by 33% to allow a faster execution time of E2E tests.
- Integrated NoSQL Firestore database, Firebase Cloud Storage and Firebase Auth into React.js project.
- Utilized: JavaScript, React.js, Cypress.io, GitHub Actions, Firebase, Figma, MUI

PROJECTS CONT.

Spotify Data Visualizer

Jan 2023

ConUHacks 2023 Project

- Implemented dynamic tree maps using JavaScript to display top artists from Spotify.
- Used Spotify REST API to display artist information in React.js project.
- Utilized: React.js, JavaScript, Node.js, Express.js, MySQL, GitHub Actions, Figma, CSS

Heagle

Jan 2022 - May 2022

E-Commerce Application

- Led and managed a team of 7 students to build a full stack web application using React.js.
- Implemented CI and CD using GitHub Actions to apply Agile methodology.
- Fetched data from MySQL database using REST APIs to display information in React.js project.
- Utilized: React.js, JavaScript, Node.js, Express.js, MySQL, GitHub Actions, Figma, CSS

OTHER WORK EXPERIENCE

Montreal 3D Printing

April 2022 - April 2024

Small Business Owner

Saint-Lazare, QC

- Designed and printed 3D models for clients to satisfy their requests.
- Optimized and sliced over 50 3D models using UltiMaker Cura.
- Generated sales in Canada and USA with over 60% profit margins through ecommerce websites.

FedEx Supply Chain

June 2019 - April 2022

Warehouse Associate

Coteau-du-Lac, QC

- Worked either in teams or alone to achieve daily objectives.
- Recorded information, shortages, and discrepancies to keep records current and accurate.
- Loaded/unloaded materials from skids and other transport vehicles.

Petinos

June 2018 - Sept 2019

Restaurant Busser

Vaudreuil-Dorion, QC

- Worked in a small team to deliver the best customer service.
- Pitched in extra hours and helped other staff during unexpected times of high volume to improve seating availability and food delivery to tables.
- Kept a close eye on customers to quickly spot leaving guests and clear tables for future clients.

Dorion Dream Center

May 2017 - Aug 2017

Volunteer

Vaudreuil-Dorion, QC

- Helped serve and prepare fresh meals for hundreds of families in need in Vaudreuil-Dorion.

SCHOLARSHIP

National Bank Financial Markets

May 2023