

ALAN MATTHEW VADLAKUNTA

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

SKILLS

Programming Languages	Python, Java, JavaScript, TypeScript, Go, SQL, HTML5, CSS3
Technologies	AWS, Docker, MySQL, PostgreSQL, Cassandra, Redis, Microservices, REST APIs, Git, GitLab, Bitbucket
Frameworks & Libraries	Pandas, NumPy, Flask, Spring Boot, React, Next.js, Node.js, Angular, Tailwind, Cypress, Pytest
Languages	English, French (Fully Bilingual)

EXPERIENCE

Asher Technologies LLC

Aug 2025 - Present

Remote - Herndon, VA

Backend Developer

- Implemented an automated system to detect operating statement and MAMP variances using Python, removing 15 hours of manual review time each month.
- Built Palantir Foundry dashboards to visualize monthly statement alerts, reducing manual review effort and accelerating issue detection.
- Developed SQL-based ETL transformations to clean, aggregate, and validate raw ingestion data into views.
- Delivered an automated IACUC protocol workflow using Java and React.js, streamlining creation, delegation, status transitions, and email notifications reducing processing time by 50%.
- Improved batch processing speed across Java modules by refactoring code, and resolving defects.
- Utilized: Python, Java, Palantir Foundry, React.js, Pandas, Spring Boot, Jenkins, MySQL, Git, GitLab

National Bank of Canada

May 2024 - Aug 2025

Montreal, QC

Algorithmic Trading Developer - ETF & Algorithmic Trading

- Built Python data pipelines to process and transform data from over 1500 ETFs with varying file formats, optimizing ETL workflow.
- Implemented Go RESTful APIs for financial instrument resolution, improving runtime speeds by 30% across 5+ critical applications.
- Designed a real-time trading data pipeline using Java, reducing batch processing time from 45 minutes to near real-time by incrementally processing incoming files.
- Contributed in the architecture for a real-time trading data pipeline, creating class and sequence diagrams to document system and microservices interactions and data flow.
- Utilized: Java, Python, PostgreSQL, AWS, Redis, SQL, Git, Go, Bash, Hibernate, Vue, Jenkins

Software Engineer Intern

Montreal, QC

- Implemented comprehensive React.js 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.
- Developed Python automation to generate and store invoices on AWS S3, reducing billing cycle time.
- Utilized: Python, React.js, AWS, TypeScript, Flask, SQL, Git

Asher Technologies LLC

May 2023 - Aug 2023

Remote - Herndon, VA

Software Developer

- 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 using Java and React.js to efficiently integrate and process data from multiple vendors.
- Utilized: React.js, Java, Jenkins, MySQL, GitLab

Sofvie

Jan 2023 - May 2023

Montreal, QC

Big Data Engineer Consultant

- 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

EDUCATION

Bachelor of Engineering - Software Engineering

Sep 2020 - May 2024

Montreal, QC

Concordia University

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

PROJECTS

CommunityGrid

Sep 2023 - May 2024

Montreal, QC

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