

Yousef Mehdizadeh

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TECHNICAL SKILLS

Languages: C, C++, Java, Python (NumPy, Pandas, scikit-learn), JavaScript/TypeScript, SQL, HTML/CSS

Frameworks & Libraries: React.js, Node.js, Express, Django, GraphQL, Flask, Chart.js

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda), Docker, Kubernetes, Git, CI/CD pipelines, Redis, N8N automation

Data & Analytics: Power BI, Tableau, ARIMA/Prophet forecasting, Machine Learning pipelines, ETL design, PostgreSQL, MongoDB

WORK EXPERIENCE

Data Science and Quantitative Analyst Intern

May 2025 – Present

ONEX – [Python, SQL, Power BI, Tableau, scikit-learn, ARIMA, Flask, N8N, Redis]

Toronto

- Developed a consolidated **executive dashboard** using **Python, SQL, and Power BI**, eliminating **150+ manual reports/month** and accelerating executive decisions.
- Optimized portfolio forecasting with **ARIMA, Prophet, and ensemble models**, reducing error by **20%** and improving capital allocation.
- Collaborated with **C-suite leaders** across 5 companies to design segmentation logic, cutting **50K redundant contacts** and generating **\$400K in revenue**.
- Built and deployed a **churn prediction model** with **scikit-learn logistic regression**, retaining **1,800 clients** and preserving **\$1.2M revenue**.
- Automated ETL and reporting pipelines with **Python + SQL stored procedures**, saving **45 hours/month**.
- Deployed **AI anomaly-detection agents** via **N8N + Redis**, reducing incident resolution time from 8 hours to under 1 hour.

Full-stack Development & Consulting

Jan 2023 – Jan 2024

Freelance – [Node.js, Express, GraphQL, React, MongoDB, Stripe, AWS, Figma]

Toronto

MZ Tutors – Tutoring Management Platform

- Built a full-stack platform with **Node.js, GraphQL, React, and MongoDB**, supporting **50 tutors and 400+ students** in scheduling and billing.
- Automated scheduling and notifications with **WebSockets**, saving **30+ hours/week** and reducing billing errors by **40/month**.
- Implemented secure role-based authentication with **JWT/OAuth**, protecting sensitive tutor and student data.

Canadian Smart Business – E-commerce Platform

- Developed an e-commerce system with **Django + PostgreSQL**, managing 50+ products and generating **\$25K–\$40K yearly sales**.
- Automated order management and analytics dashboards with **Stripe + Django ORM**, saving **10–15 hours/week** and preventing overselling incidents.
- Optimized queries and enabled lazy loading, cutting page load times from 5s+ to under 2s, boosting conversion rates.

Full Stack Developer

Sep 2021 – Apr 2022

Prime Factor – [Stripe API, Redis, BullMQ, React, Chart.js, Twilio, SendGrid]

Toronto, Canada

- Engineered an **automated invoicing system** with **Node.js, PostgreSQL, and Stripe API**, removing manual invoice creation and enabling secure auto-payments.
- Automated billing workflows with **Twilio + SendGrid**, reducing overdue collections and improving cash flow stability.
- Implemented retry queues using **Redis + BullMQ**, reducing failed payment delinquency.
- Built a real-time reconciliation dashboard with **React + Chart.js**, saving **20+ hours/month** and replacing Excel workflows.
- Expanded accountant productivity by 60%, enabling each to manage **800 clients vs. 500 previously**.
- Secured financial operations with **JWT/OAuth2**, protecting sensitive client payment data.

PROJECTS

In-House Product Detection Model – Computer Vision System

- Designed a custom object detection pipeline with **OpenCV, Python, and TensorFlow/PyTorch**, automating product recognition from images.
- Integrated model into internal systems via **REST APIs and batch pipelines**, reducing manual tagging workloads by **hundreds of items**.

FIGR – Mobile-first Budgeting Platform

- Developed a budgeting app with **React, TypeScript, and Supabase**, automating subscription tracking and reconciliation.
- Built real-time dashboards with **Supabase Edge Functions**, improving financial visibility for users.
- Designed a mobile-first UI with **Tailwind + shadcn-ui**, ensuring responsiveness across devices.

Duo Dates – Relationship Management Web App

- Created a collaborative app with **React 18, TypeScript, and Firebase**, enabling couples to plan and sync experiences in real time.
- Implemented offline-first architecture with **TanStack Query + Firestore**, ensuring seamless use without connectivity.
- Built interactive features (spinning wheel, memory diary) with **React + Firebase**, enhancing engagement.

EDUCATION

Wilfrid Laurier University

Honours Bachelor of Science, Double Major: Computer Science and Physics

Waterloo, ON, CAD

2022 – Present