

# Sadi Mohammad Mustafa

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## EDUCATION

### University of Saskatchewan

Bachelor of Science in Computer Science

2025

Saskatoon, SK

## TECHNICAL SKILLS

**Languages:** Python, TypeScript, JavaScript, SQL, Java

**Frameworks & Platforms:** React.js, Node.js, Django, GraphQL, REST API

**Databases & Cloud:** PostgreSQL, MySQL, AWS (*Lambda*, *ECS*, *CDK*, *S3*), Redis, MongoDB

**Tools & DevOps:** Git, Docker, Nginx, CI/CD (GitHub Actions, CodePipeline), PyTest, Bash

## EXPERIENCE

### Software Engineer

2025 – Present

Carbon Labs

Calgary, AB

- Built real-time dashboards with TypeScript + React, enabling regulators to query and visualize 600k+ AER/Petrinex records with sub-200ms response times
- Automated big-data pipelines in AWS (EventBridge, Lambda, ECS, S3, Step Functions), scaling to millions of sustainability records monthly and powering Canada's first orphan well plugging carbon credit issuance
- Architected backend services with Django REST + PostgreSQL, implementing idempotent ingestion that cut duplicate data errors by 30% and improved reliability of credit calculations across 185k+ carbon credit sales
- Standardized deployments with AWS CDK, Docker, CodePipeline, reducing environment setup time from 2 days to 2 hours and enabling zero-downtime releases with 40% faster release cycles

### Full-Stack Developer

2022 – 2024

Trusted Marketing Services

Saskatoon, SK

- Developed and deployed production web apps using Nuxt.js, React.js, and Django, improving front-end UX and streamlining back-end workflows for small-business clients
- Refactored legacy code and built RESTful APIs with Django ORM and custom middleware, increasing performance and maintainability
- Implemented CI/CD pipelines with GitHub Actions and Docker, raising deployment reliability and boosting automated test coverage to 85%+

### Web Developer Co-op (12-Month Placement)

2021 – 2022

Trusted Marketing Services

Saskatoon, SK

- Converted Figma prototypes into responsive, mobile-first components with Vue.js (Nuxt) and React (Next), accelerating feature delivery by 40%
- Built dynamic product pages, reusable UI components, and interactive visual editors; automated marketing and ETL workflows with Python scripts
- Earned return offer based on technical performance, ownership mindset, and reliability

### Software Developer Intern

2020 – 2020

Intel

Toronto, ON

- Enhanced Quartus FPGA compile system components in C++ on embedded-Linux, improving compile throughput by 12%
- Developed a multi-threaded logging utility with POSIX pthreads for real-time diagnostics on VxWorks

## PROJECTS

### Property Management Platform | *React.js*, *Node.js*, *MySQL*, *GPT-4*, *scikit-learn*

- Built and deployed full-stack web app for Meadow Green ([mgPMC.com](https://mgPMC.com)) with dashboards for landlords and tenants; manages 21+ properties and 100+ monthly users
- Integrated GPT-4 via OpenAI API for smart tenant communication, lease summary generation, and automated email drafting
- Architected Kafka-based event pipeline to track lease updates, rent payments, and user activity in real time
- Dockerized CI/CD pipeline with AWS hosting for scalable deployment; **Live:** [mgPMC.com](https://mgPMC.com)