

# Sadi Mohammad Mustafa

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## EDUCATION

### University of Saskatchewan

January 2019 – June 2025

*Bachelor of Science in Computer Science*

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, PHP, SQL, Java, Scala, C#, C++

**Frameworks & Platforms:** Angular.js, React.js, Vue.js, Nuxt.js, Node.js, .NET, Spring Boot, MongoDB, DynamoDB, Elasticsearch, Redux, Tailwind CSS, Figma, Django, Shopify Liquid, GraphQL, PowerBI, Vite+React, Strapi, Unity

**Databases & Cloud:** MySQL, NoSQL, Redis, PostgreSQL, AWS, GCP, DigitalOcean, Azure

**Tools & DevOps:** Git, Docker, Jira, CI/CD Pipelines, Jest, PyTest, Unix Tools, Bash

## EXPERIENCE

### Software Engineer

August 2025 – Present

*Carbon Labs*

- Built and maintained high-performance dashboards with **TypeScript + React**, enabling regulators and energy analysts to interact with **hundreds of thousands of AER/Petrinex records** in real-time with **sub-200ms response times**
- Designed and automated big-data ingestion pipelines in **AWS** (EventBridge, Lambda, ECS, S3, Step Functions), transforming manual workflows into scalable, event-driven processes
- Architected and optimized backend services with **Django REST and PostgreSQL**, implementing idempotent ingestion logic for reliable high-volume data processing
- Enhanced observability and cost control by integrating **AWS CloudWatch alarms**, Cost Allocation Tags, and SNS notifications, improving reliability and reducing pipeline maintenance overhead
- Streamlined deployments with **Docker + AWS CodePipeline**, ensuring fast, zero-downtime releases

### Full-Stack Developer

January 2022 – June 2024

*Trusted Marketing Services*

- Delivered production web apps with **Nuxt.js, React.js, and Django**, optimizing both front-end UX and back-end workflows for diverse small-business clients
- Built and maintained **RESTful APIs** with Django ORM and custom middleware, refactoring legacy code for performance and maintainability
- Integrated **CI/CD pipelines** with GitHub Actions and Docker, improving deployment reliability and test automation coverage to 85%+

### Web Developer Co-op

January 2021 – January 2022

*Trusted Marketing Services*

- Converted static Figma prototypes into responsive, mobile-first components using **Vue.js (Nuxt)** and **React (Next)**, improving time-to-market by 40%
- Built dynamic product pages, reusable UI components, and interactive visual editors; automated workflows with **Python scripts** for marketing and ETL tasks
- Earned return offer as contractor based on strong technical performance, ownership mindset, and reliability

### Software Developer Intern

May 2020 – August 2020

*Intel*

- 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)