

Danish Mohammad

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RELEVANT PROFESSIONAL EXPERIENCE

Freelance (*Projects for corporate and individual clients, specializing in web and backend applications*)

Software Developer

May 2024 – Present

- Partnered with clients such as **Shell**, consolidating **200+ web pages** into **75 SEO-optimized pages**, boosting site performance and **brand alignment**.
- Designed and developed **responsive e-commerce applications** with **JavaScript, React, Vite, HTML, and CSS**, implementing **dynamic product interfaces, reusable components**, and optimized layouts for cross-device performance.
- Built and deployed **scalable backend services** with **Python, Django, and Flask**, integrating **RESTful APIs** to streamline **data workflows** and **JSON processing**.
- Implemented **CI/CD pipelines** with **GitHub Actions** and **Docker**, reducing manual errors and ensuring consistent production-ready deployments.
- Deployed and maintained **AWS S3 applications**, implementing **SSL**, access controls, and storage optimizations for **secure, reliable hosting**.

Microdental Laboratories (*Leading provider of high-precision dental prosthetics and digital workflow solutions*)

Software Engineer

May 2023 – August 2024

- Implemented a **cloud-based enterprise B2B case management system**, enabling real-time production tracking and operational visibility.
- Deployed **enterprise-wide automation** with a real-time scanning system, cutting case remakes from **18% to 4%** in eight months.
- Optimized **workflows and tracking systems**, improving efficiency, cutting costs, and ensuring accurate real-time data across global operations.
- Led **budget planning and resource allocation**, streamlining procurement, vendor negotiations, and logistics to reduce lead times and costs.
- Managed an **enterprise account and cross-functional teams**, overseeing global vendor partnerships, **SLAs**, and critical escalations.
- Trained and mentored staff** on dental fabrication techniques, digital workflows, and **process automation**, improving precision and efficiency.
- Resolved high-impact production errors by reallocating personnel and materials, coordinating urgent rebuilds while **protecting brand reputation**.

Eshha Jewelers (*Family-owned business specializing in traditional South Asian gold jewelry*)

Software Engineer

January 2020 – March 2023

- Built a **custom inventory and order system** using **JavaScript, Python, and Postgres**, streamlining tracking and fulfillment.
- Developed and maintained an e-commerce site with **HTML5 and CSS3**, applying **SEO best practices** to improve search visibility.
- Integrated **Stripe and PayPal APIs** for secure and reliable payment processing.
- Automated catalog updates and image processing workflows with **Python scripts** and **Linux/Bash tools**, reducing manual overhead.
- Leveraged **Git version control** to manage code changes, support Agile workflows, and collaborate with stakeholders.

East Hills Dental Associates (*High-end dental implant studio*)

Junior Software Engineer

March 2018–December 2019

- Implemented **digital record-keeping and CAD/CAM software**, streamlining dental modeling workflows and improving data accuracy.
- Collaborated with technicians and dentists to **develop and optimize digital solutions**, enhancing operational efficiency.
- Automated** repetitive tasks using **basic scripting and digital tools**, reducing manual errors and processing time.
- Supported integration of software systems with lab operations, gaining hands-on experience with **data management and digital workflows**.

TECHNICAL & FINANCIAL SKILLS

Programming Languages: JavaScript, Python, HTML5, CSS3 (Sass), SQL, CAD/CAM, Linux/Bash

Frameworks & Libraries: React, Redux, Express, Node.js, Flask, Django, Vite, WaveSurfer.js

Databases & Data Management: Postgres, SQLAlchemy, Sequelize, Data Pipelines, JSON, RESTful APIs, High-Volume Data Handling

Cloud & DevOps: AWS s3, Docker, CI/CD, GitHub Actions, Render, Gunicorn, Infrastructure Monitoring, Incident Response, SSL Configuration

Software Development & Workflow Optimization: Agile, Scrum, Jira, Pair Programming, Wireframing, Prototyping, Full-Stack Application Design, Workflow Automation, Media

Full-Stack Engineering & Project Highlights

Sol: Financial Data Processing & Trading App

Description: Real-time trading simulator with automated stock data updates, seamless market interactions, and scalable financial processing.

- Built a **Python/Flask backend with SQLAlchemy and APScheduler integration**, automating 15-minute delayed stock data updates and enabling high-performance API interactions with external financial sources (e.g., **Polygon.io**).
- Developed a **React frontend with Redux**, optimizing state management and asynchronous data handling for seamless, real-time stock updates without performance degradation.
- Deployed the application on **Render**, designing a **scalable, resilient architecture** with optimized database schemas, efficient data-fetching, and robust system reliability for millions of transactions.

Melody: Cloud-Based Music Streaming Platform

Description: Cloud-based music platform with custom audio playback, real-time browsing, and optimized media streaming for a seamless user experience.

- Built a **React frontend with Hooks and Redux**, enabling real-time music browsing and seamless, efficient state transitions.
- Developed a **Flask backend with SQLAlchemy**, creating **scalable API endpoints** and optimized database queries for fast, reliable music retrieval and playback; integrated WaveSurfer.js for on-demand audio streaming from **AWS S3**.
- Deployed the application on **Render** using **Docker and Gunicorn**, leveraging **AWS cloud services** for secure, scalable, and high-availability media streaming while optimizing system performance and user experience.

EDUCATION & CERTIFICATIONS

App Academy
Binghamton University / NYCCT

Full Stack Software Engineer Certification
Studies in Computer Science/ Economic Studies