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FULL STACK SOFTWARE APPLICATIONS:

Stock Market Trading Simulator: Sol

Link- https://capstone-ybmg.onrender.com/

Description: A real-time trading simulation platform with automated stock data updates, seamless market interactions, and scalable financial data processing.

- Real-Time 15min Delay Data Processing & Automation: Implemented an APScheduler-integrated backend that automatically fetches and
 updates live stock market data from the source, which is delayed by 15 minutes.
- Scalable Microservices & API-Driven Architecture: Built a Flask-based backend with SQLAlchemy ORM, enabling high-performance API interactions with external financial data sources (e.g., Polygon.io).
- Efficient State Management & Frontend Performance Optimization: Designed a React-powered UI with Redux state management and asynchronous data handling, ensuring seamless stock data updates without performance degradation.
- Cloud Deployment & Infrastructure Reliability: Successfully deployed the application on Render, showcasing DevOps capabilities in cloud infrastructure management, automated provisioning, and scalable service deployment.
- Robust Data Handling & System Resilience: Engineered an optimized database schema and integrated efficient data-fetching mechanisms to
 handle millions of stock transactions efficiently, ensuring data integrity, consistency, and fast query execution.

Music Streaming App: Melody

Link - https://melody-63tg.onrender.com/

Description: A cloud-integrated music platform with custom audio playback, real-time browsing, and optimized media streaming for a smooth user experience.

- Scalable State Management & Frontend Performance Optimization: Built an interactive React frontend using Hooks and Redux, ensuring a
 real-time, dynamic music browsing experience with seamless state transitions and reduced re-rendering overhead.
- Custom Audio Streaming & Cloud Integration: Engineered a WaveSurfer.js-based custom music player for on-demand audio playback, efficiently streaming music files from AWS S3.
- Efficient Backend API & Database Design: Developed a Flask-based backend with SQLAlchemy ORM, enabling scalable API endpoints and
 optimized database queries for fast, reliable music retrieval and playback.
- Cloud-Native & Scalable Deployment: Utilized AWS services for secure and efficient file storage, ensuring high availability and scalability while deploying the application on Render with Docker and Gunicorn.
- Optimized System Performance & User Experience: Fine-tuned state management and API interactions to minimize lag and enhance responsiveness, ensuring a highly performant and user-friendly music streaming experience.

TECHNICAL & FINANCIAL SKILLS

Programming Languages:

Frameworks & Libraries:

Database & Infrastructure:

Cloud & DevOps:

Financial Data Processing & Analysis:

Software Development & Workflow Optimization:

JavaScript, Python, HTML, CSS, SQL, CAD/CAM

React, Redux, Express, Node.js, Flask

Postgres, SQLAlchemy, Sequelize, Data Pipelines, ETL Processing

AWS (S3, Lambda, EC2), Docker, CI/CD

Market Analysis, Automated Trading, Risk Management, Data Analysis Scrum, Agile, Pair Programming, Support Blog, Magic Touch, Media

RELEVANT PROFESSIONAL EXPERIENCE

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

Production Operations Lead

March 2023 – August 2024

- Developed and managed budget proposals for onsite machines, successfully rerouting expedited orders from Livermore, CA and Shenzhen, China to New York, cutting lead times and costs.
- Implemented enterprise-wide automation, including a real-time scanning system, reducing case remakes from 18% to 4% in 8 months and ensuring seamless tracking.
- Oversaw procurement and resource allocation, maintaining inventory, negotiating with vendors, and managing a weekly lab budget to optimize resource usage.
- Trained and mentored staff, introducing state-of-the-art dental fabrication techniques and improving precision in restoration designs and digital workflows.
- Directed daily scrum meetings, prioritized high-value cases, and managed critical escalations, ensuring on-time international shipments and streamlined operations.
- Resolved high-impact production errors, reallocating resources and overseeing 8-hour rebuilds for precision dental restorations, maintaining strict quality standards and reputation.

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

Account Manager

January 2019 – May 2023

- Managed \$300K+ in gold trading transactions with top U.S. refineries, including American Gold & Diamonds, Refine Max, and Ross Precious Metals, ensuring financial accuracy, regulatory compliance, and optimal profit margins.
- Maintained precise financial tracking and reconciliation systems for transactions, invoicing, and payment processing using Microsoft Excel.
- Conducted real-time market and economic analysis, leveraging pricing trends and historical data to strategically time gold buying and selling decisions, minimizing risk in volatile markets.
- Oversaw in-store and international sales operations, coordinating custom orders from Dubai, Oman, and India while ensuring logistics, U.S. customs documentation, and tax compliance for seamless transactions.
- Developed high-value client relationships, applying consultative sales strategies and financial advisory insights to enhance customer engagement, retention, and revenue growth.
- Implemented accurate financial tracking systems for invoicing, payment processing, and inventory valuation, improving cash flow and overall business profitability.

EDUCATION & CERTIFICATIONS

App Academy Binghamton University Coursework New York City College of Technology Full Stack Software Engineer Certification Studies in Economic Studies Restorative Dentistry Program