Meet Mehta

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EDUCATION

University Of Ottawa - Honors Bachelor in Computer Science   Sept. 2021 - Dec. 2023
- *Dean's Honors List, Scholarship worth $7000 — GPA: 3.4/4*   *Ottawa, ON*

TECHNICAL SKILLS

- **Programming Languages**: **Python**, **Java**, Javascript, VB.Net, HTML, CSS
- **Python Libraries::** **TensorFlow**, **PyTorch**, Pandas, **Scikit**, Numpy, MatplotLib, , TA-Lib
- **Databases & Frameworks/ Libraries**: MySQL, PostgreSQL, React, Bootstrap, Django
- **Development Tools**: Git, Docker, Bash, AWS, Jira, Selenium, Google OAuth2 API, PowerBI, Datadog, Airflow.

EXPERIENCE

Software Engineer   Jan 2024 - Current
Farm Link Solutions - GrainFox   *Ottawa, ON*

- Developed and optimized **big data pipelines** to transform raw commodity data into actionable insights, improving data accuracy by 30% and enabling more informed decision-making.
- Worked on setting up and maintaining **CI/CD** pipelines to automate testing, building, and deployment processes, reducing deployment times by 50% ensuring faster and more reliable updates to applications.
- Developed frontend components using **Vue.js** and implemented backend features in JavaScript/Django for **SaaS** applications, enhancing user experience and functionality.
- Implemented scalable deployments using **Docker** and AWS, reducing infrastructure costs by 20%.
- Managed data workflows using **Apache Airflow** to streamline ETL processes in a cloud-based environment.
- Built custom monitoring solutions using **Datadog** to identify performance bottlenecks and ensure uptime, achieving 99.9% application availability.
- Implemented custom python scripts leveraging **REST APIs** to streamline data collection for **unified data pipeline**. This process improved data quality for training our ML model.
- Designed and optimized relational database models using **Django ORM** and SQL, reducing query latency by 15% while supporting seamless integration with cloud systems.

Software Engineer   Sept 2023 - Dec 2023
GastroTrackAI   *Ottawa, ON*

- Developed the entire website's front-end using **React**, resulting in a savings of $149/month from Wix subscription.
- Developed workflows to automate data communication between the client and server using **Node.js** and **TypeScript**.
- Enabled integration of structured and unstructured data using **Node.js**, contributing to data pipeline efficiency.
- Using **typescript** and **Material UI**, customized the website theme for better user engagement.
- Developed **Node.js** (SMTP protocol) for email communication from web users, driving up web traffic by 10%.
- Enabled transfer of text and images between client and server using nodemailer, enhancing overall communication.

PROJECTS

- **Rate My Course**
  - A responsive **Django** web application, for students to rate and review over 10,000 uOttawa courses.
  - Integrated **Google Sign-in via OAuth2 API**, fostering user trust and simplifying login experience.
  - Optimized data retrieval and ETL processes, achieving a 15% improvement in query performance using **PostgreSQL**.
  - Implemented PostgreSQL **relational tables** for scalable deployment in cloud-based environments.
- **Community Detection using GNN**
  - Processed large-scale social network datasets to identify communities, leveraging distributed data structures for optimized performance.
  - Utilized cloud-based resources to train GNN models, ensuring scalability for Big Data applications.
  - Implemented **feature engineering**, GNN model training, and clustering algorithms to identify communities.
  - Optimized performance through hyperparameter tuning and metric evaluation.