Divij Shah

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Education

North Carolina State University, Raleigh, North Carolina   **Aug 2023 – May 2025**
Masters in Computer Science   **GPA:3.5/4.0**
Coursework: Design and Analysis of Algorithms, Software Engineering, Neural Networks and Deep Learning, Cloud Computing, Human Computer Interaction, DataBase Management Systems and Foundations of Data Science.

Pandit Deendayal Energy University, Gandhinagar, India   **Aug 2019 – May 2023**
Bachelor of Technology in Computer Engineering   **GPA:3.9/4.0**
Coursework: Data Structures, Computer Graphics, Artificial Intelligence and Object Oriented Programming.

Skills

Programming Languages: Python, C++, C#, SQL, Java, JavaScript, Typescript.
Tools & Technologies: GitHub, Tableau, MS Power BI, Figma, RapidMiner, SSMS, Airflow.
Frameworks: .NET (ASP.NET), Hadoop, Django, Node.js, express.js, Next.js, React.js
Databases & Cloud Services: MySQL, MongoDB, Oracle, AWS, MS Azure.

Experience

Program Analyst, NC State University   **Mar 2024 - Present**
Tech Stack: Python, JavaScript, MS Excel, MS Power BI, FusionGO
- Coded and deployed automated ETL workflows, enhancing data pipeline efficiency, streamlining reporting, and improving data accuracy by 30%.
- Developed, tested, and maintained backend systems for Casey Aquatic Center programs, optimizing database performance and ensuring seamless FusionGo integration.
- Built and deployed data tracking systems to monitor staff performance, enforce compliance, and improve operational efficiency for university wellness initiatives.

Software Development Engineer Intern, Jinee Infotech   **Jan 2023 - May 2023**
Tech Stack: C#, SQL, HTML/CSS, ASP.NET (Visual Studio), SSMS
- Designed, coded, and deployed 10+ robust backend APIs, improving system scalability, performance, and cross-platform data exchange efficiency.
- Debugged and optimized complex SQL queries and backend business logic, reducing response time by 35% and enhancing data retrieval speeds.
- Implemented and tested secure API authentication, encryption protocols, and access control measures, minimizing security vulnerabilities by 15%.

Machine Learning Intern, Mement.io   **Jan 2022 - May 2022**
Tech Stack: Python, Tableau, Airflow, Google Data Studio
- Debugged, and deployed a recommendation ML model, increasing accuracy by 82% and enhancing predictions.
- Built and optimized end-to-end ETL pipelines, reducing training time by 25% and automating feature extraction workflows for machine learning applications.
- Conducted weekly market research to drive user base expansion and support community growth through data-driven insights.

Projects

Interactive Study Course Book; *Tech Stack: Python, MySQL*   **Sept 2024 - Nov 2024**
Designed an E-Textbook and Assessment Platform with a relational schema in MySQL, enabling efficient management of e-textbooks, user roles, courses, and interactive assessments. The system supports complex data structures and enhances digital learning experiences.

Real Estate - ERP; *Tech Stack: ASP.NET, C#, Postman, SSMS, SQLite*   **Jan 2023 - May 2023**
Developed an MVC-based API for a real estate startup to streamline property assignments and client scheduling. The API integrated real-time data validation, improving efficiency in employee-to-property mapping and enhancing client appointment scheduling.

'BURPP!' App; *Tech Stack: Google Cloud, Java, MySQL*   **Sept 2022 - Dec 2022**
Built a mobile application that enabled users to browse and order from local food trucks in Ahmedabad. Implemented online ordering, takeaways, and dietary filters, leveraging MySQL for real-time data storage and seamless user experience.