Deep Patel

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Work Experience

Systems Developer/Programmer II · **SC Department of Education** Jun 2025 — Present

- Utilized AWS services, such as: Lambda, Redshift, S3, IAM, and VPC to develop a data pipeline and modernize existing systems
- Designed various dashboards using Power BI and populated them with data by querying SSMS and Snowflake data using SQL
- Designed and developed data validation processes to ensure data quality across multiple ODS and data warehouse systems
- Developed Python scripts and wrote SQL queries to ingest and transform API data from various sources for the purpose of generating reports for data requests
- Engineered Copilot Agents to develop various solutions while iteratively collaborating with stakeholders
- Presented technical training material to a plethora of district members across the state in an effort to increase data confidence

Prompt Engineer · **Outlier** Oct 2024 — Jun 2025

- Crafted prompts to progressively train generative AI models to write code and adhere to a set of guidelines
- Designed System Instructions (SI) and evaluate multi-turn prompt responses for coherence of the SI against a set of API functions
- Developed responses in natural language and algorithms in Java and Python to simulate model outputs and facilitate the progressive training of generative AI models
- Utilized process supervision to identify errors and gaps in model reasoning and offer guidance for better performance in reasoning
- Evaluated tasks completed by other contributors and check for compliance, completion, and correctness to ensure readiness for client delivery

Web & Tech Department Manager · **NSTEM** Aug 2023 — Jul 2024

- Supervised department interns, providing mentorship and leading weekly team meetings
- Delivered comprehensive training to interns, enhancing their understanding of business procedures and WordPress
- Managed and assigned department assignments
- Maintained and optimized company website using WordPress, resolving technical issues and improving functionality
- Contributed to the full-stack development of the company website using: JavaScript, HTML/CSS, and WordPress
- Assisted in the creation of the HR database using Airtable

Certifications

AZ-900, Google Agile Essentials, MS C# Fundamentals, REST Engineer

Skills

Programming Languages

Python, SQL, C#, Java, JavaScript, HTML, CSS

Libraries & Frameworks

Pandas, Numpy, React Native, .NET, TensorFlow, PyTorch

Tools & Platforms

Git (GitHub/GitLab), Power BI, Asana, SSMS, MS Office Suite, Docker, WordPress, AWS, Azure, Visual Studio, Snowflake

Projects

Artificial Intelligence Project

Binary classification model to distinguish images of defective and non-defective potato chips using PyTorch and Keras

Scheduler X

Android app developed in JavaScript using React Native with a Firebase backend. Tested with JUnit and Detox using API-driven data. Developed app website with HTML/CSS

Blackjack

Console-based C# .NET blackjack game, containerized with Docker, backend managed by AWS and SQL Server

Education

University of South Carolina

Bachelor of Science in Computer Science

Bachelor of Arts in Media Arts

International Baccalaureate (IB) Diploma