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Aneesh Sallaram

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Education

University of North Carolina at Chapel Hill — Chapel Hill, NC
Bachelor of Science in Computer Science, Statistics — *Aug. 2022 – May 2026*

Experience

Software Engineering Intern – AI & Automation — June 2024 – Present
ArcanaNetworks Inc. — *Phoenix, AZ*

- Developed modular assistants to handle different outcomes of script validation, allowing reuse across projects.
- Designed and built a C# WPF (XAML) application on .NET 7.3 for validating Device Markup Language (DML) scripts, supporting schema enforcement, simulation, and structured debugging.
- Implemented a RAG-based agent system to generate and iteratively refine XML scripts based on validation feedback from CLI and HTTP execution environments.
- Authored internal documentation and structured schema references for DML, enabling agents to understand correct methods, enforce formats, and produce valid outputs.

Undergraduate Research Assistant — August 2023 – Present
UNC Sports Analysis Intelligence Laboratory — *Chapel Hill, NC*

- Working with UNC sports teams to analyze injury data, lineup efficiencies, and player performance metrics and using R Studio and Shiny to present sports teams with dashboards visualizing data.
- Developed a Python and PostgreSQL–based web platform with interactive dashboards using HTML and JavaScript to collect, manage, and visualize athlete performance and injury data for UNC sports teams.
- Participating in case competitions locally and nationally to showcase analytical skills and building statistical models to represent data.

Projects

UNC Sports Data Analysis Platform — February 2024 – Present
UNC Athletics Project

- Built a full-stack web platform to collect, store, and visualize athlete performance and injury data for UNC teams.
- Used REST APIs and database schemas for data management using Python and PostgreSQL.
- Implemented interactive dashboards with HTML, JavaScript, and CSS to help coaches monitor player metrics.
- Used exploratory data analysis and models in Python to predict injury risk based on athlete-specific data.

Student Clubs Roster Management — Sep. 2024 – Nov. 2024
Class Project — *Chapel Hill, NC*

- Developed a web-based platform enabling student clubs to efficiently manage member rosters, track participation, and provide exclusive features such as event scheduling and internal messaging.
- Implemented admin access controls to allow club leaders to securely manage club data and member information.
- Built a responsive frontend using AngularJS and TypeScript, designed backend RESTful APIs in Python, and utilized PostgreSQL for robust, scalable, and reliable data storage and management.

College Basketball Archetype Analysis — Jan 2025 – Mar 2025
Independent Research — *Chapel Hill, NC*

- Created data pipelines in Python and Excel to automatically collect, clean, and manage college basketball player and lineup data from sources including ESPN and EvanMiya.
- Developed Python scripts implementing Bayesian performance ratings to classify player archetypes using advanced metrics such as assist %, usage %, and shooting efficiency.
- Built data visualizations in Python and R to analyze lineup efficiencies and optimize player combinations, and presented at the UNC Celebration of Undergraduate Research.

Technical Skills

Languages: C#, CSS, HTML, Java, JavaScript, Python, R, SQL, TypeScript, XAML, React
Frameworks & Libraries: .NET, AngularJS, REST APIs
Databases & Tools: Docker, Git, PostgreSQL, Visual Studio, VisualSVN, VS Code
Data Analysis & Visualization: ggplot2, pandas, NumPy, R Shiny
Automation & Scripting: CLI scripting, DML (Device Markup Language), XML