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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*

- Designed and built a C# WPF (XAML) application for validating Device Markup Language (DML) scripts, allowing for schema enforcement, simulation, and structured debugging.
- Integrated OpenAI-powered agents into the application to generate and iteratively refine XML scripts based on validation feedback from CLI and HTTP execution environments.
- Embedded React components into the WPF app via WebView2, allowing users to view and interactively resolve validation errors in real time with an agentic UI feel.
- Authored internal documentation and structured schema references for DML, enabling the AI agents to understand correct methods, enforce formats, and produce valid outputs.
- Developed decoupled assistants and services for different results of the script validation, allowing execution and reuse across different projects and uses.

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.
- Participating in case competitions locally and nationally to showcase analytical skills and building statistical models to represent 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.

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 health and metrics.
- Used exploratory data analysis and models in Python to predict injury risk based on athlete-specific and real-time data.

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

- Developed a platform enabling student clubs to manage rosters and member-only features such as announcements, events, and admin access to club data.
- Built frontend with AngularJS and TypeScript, backend APIs in Python, and used PostgreSQL for reliable data storage and management.

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

- Collected and cleaned player and lineup data from college basketball databases(ESPN, EvanMiya) using Excel for data cleaning and management.
- Developed Python scripts to apply Bayesian performance ratings and classify player archetypes based on advanced metrics like assist %, usage %, and shooting efficiency.
- Analyzed lineup efficiencies using Bayesian ratings and visualized results to showcase lineup optimization; This was 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, XAML
Databases & Tools: Docker, Git, PostgreSQL, Visual Studio, VisualSVN, VS Code
Data Analysis & Visualization: ggplot2, pandas, NumPy, R Shiny