

Aneesh Sallaram

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EDUCATION

University of North Carolina at Chapel Hill

Bachelor of Science in Computer Science, Statistics

Chapel Hill, NC

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

- Analyzed injury data, lineup efficiencies, and player performance metrics; presented dashboards using R Shiny.
- Developed a Python + PostgreSQL web platform with interactive dashboards in HTML and JavaScript for athlete data.
- Built statistical models and participated in national case competitions to showcase analytical insights.

PROJECTS

UNC Sports Data Analysis Platform

Feb. 2024 – Present

UNC Athletics Project

- Built a full-stack web platform to collect, store, and visualize athlete performance and injury data for UNC teams.
- Designed REST APIs and schemas in Python and PostgreSQL for data management.
- Implemented interactive dashboards with HTML, JavaScript, and CSS to help coaches monitor player metrics.
- Applied 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 platform for student clubs to manage rosters, track participation, and schedule events.
- Implemented admin access controls for secure management of member data.
- Built a responsive frontend in AngularJS/TypeScript, RESTful APIs in Python, and PostgreSQL for storage.

College Basketball Archetype Analysis

Jan. 2025 – Mar. 2025

Independent Research

Chapel Hill, NC

- Created Python + Excel pipelines to collect and clean college basketball player and lineup data (ESPN, EvanMiya).
- Implemented Bayesian performance ratings to classify player archetypes (assist %, usage %, efficiency).
- Built visualizations in Python and R, analyzed lineup efficiencies, and presented at 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