

# Aneesh Sallaram

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## EDUCATION

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### University of North Carolina at Chapel Hill

*Bachelor of Science in Computer Science, Statistics*

Chapel Hill, NC

Aug. 2022 – May 2026

## EXPERIENCE

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### 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

Aug. 2023 – Present

*UNC Sports Analysis Intelligence Lab*

*Chapel Hill, NC*

- Researching scalable software methods for analyzing athlete performance and lineup data by building Python and PostgreSQL pipelines and web dashboards in HTML/JavaScript.
- Developing interactive visualizations in R Shiny and building statistical models that can be reused across multiple datasets and projects to extract insights from large-scale athlete data.
- Building Java tools to process and aggregate large player and lineup datasets, designed for reuse across different research projects and workflows.

## PROJECTS

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### 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 Project*

*Chapel Hill, NC*

- Built Python pipelines (pandas, NumPy) to scrape and preprocess large datasets of player and lineup statistics.
- Implemented Bayesian models and optimized efficiency metrics to analyze lineups and support multiple sports.
- Developed visualizations in Python (matplotlib) and R (ggplot2); project generates revenue and is being tested by smaller universities.

## TECHNICAL SKILLS

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**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