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*

- Built automated test workflows for XML-based Device Markup Language (DML) scripts used in network automation across CLI and HTTP interfaces
- Developed internal validation and simulation tools in **C#**, including schema enforcement, error tracking, and execution logic
- Created front-end interfaces using **XAML and C# (WPF)** to support developer tooling and script validation workflows
- Wrote supporting **Python** scripts for file operations, test case generation, and integration with internal automation systems

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
Python, PostgreSQL, HTML, JavaScript, Machine Learning

- 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.

CSAS Baseball Statistical Analysis — Jan. 2025 – Feb. 2025
Club Competition — *Chapel Hill, NC*

- Applied R and advanced statistical modeling, including linear mixed-effects and Bayesian models, to analyze baseball swing metrics and their influence on game outcomes.
- Created detailed visualizations using ggplot2 to highlight patterns.

Technical Skills

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