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 — Aug. 2023 – Present
UNC Sports Analysis Intelligence Lab — *Chapel Hill, NC*

- Built Python and PostgreSQL pipelines and developed a web platform with HTML and JavaScript dashboards for athlete data.
- Created interactive visualizations in R Shiny and engineered statistical models for performance and injury analysis.
- Developed data processing utilities in Java to support scalable handling of large player and lineup datasets.

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*

- Built Python pipelines (pandas, NumPy) to scrape and preprocess large player and lineup datasets.
- Implemented Bayesian models and optimized efficiency metrics using vectorized operations.
- Developed visualizations in Python (matplotlib) and R (ggplot2); project generated revenue and is being tested by smaller universities.

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