

Sushant Potu

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EDUCATION

University of North Carolina at Chapel Hill <i>B.S. Computer Science, B.S. Statistics and Analytics</i> GPA: 3.67/4.0	Expected May 2027 Chapel Hill, NC
<ul style="list-style-type: none">Relevant Coursework: Data Structures, Algorithms and Analysis, Computer Organization, Methods and Models of Data Science, Programming Methods, Models, Languages, and Analysis, Discrete Mathematics	

EXPERIENCE

Data Engineer Intern <i>Blue Cross Blue Shield NC</i>	May 2025 – Aug. 2025 Durham, NC
<ul style="list-style-type: none">Engineered 5 end-to-end ETL pipelines using Python and SQL, achieving 100% automation of weekly log processing and completely eliminating manual data entry/analysis.Developed a server workload forecasting system using Stacking Regressors (Random Forest + Gradient Boosting) to analyze pipeline performance, processing gigabytes of Snowflake log data via Pandas/NumPy.Deployed the model as an interactive Streamlit web application, enabling internal teams to visualize capacity constraints and proactively optimize resource allocation with ease.	
Software Developer <i>CARVR</i>	Aug. 2024 – Present Chapel Hill, NC
<ul style="list-style-type: none">Collaborated within a 4-person team in an Agile/Scrum environment, participating in bi-weekly sprints, code reviews, and used Git to successfully implement several new features for AR/VR applications.Engineered core gameplay modules for a VR rhythm game on the Oculus platform using Unity's XR Toolkit, C#, and ShaderLab such as a custom system that parses musical data and algorithmically generates dynamic visual cues.	
Research Assistant <i>University of North Carolina</i>	May 2025 – August 2025 Durham, NC
<ul style="list-style-type: none">Executed comprehensive test suites for 3 novel holographic display prototypes and reduced debugging time by 40% through systematic testing protocols, enabling faster iteration cycles for research teams.Designed and fabricated over 20 custom components using CAD and 3D printing to support the precise alignment of experimental optical hardware	

PROJECTS

NoteTaker <i>Mobile Note-taking Application</i>	In Progress
<ul style="list-style-type: none">Architected a full-stack React Native and FastAPI solution for end-to-end note management, enabling real-time creation, digitization, and sharing of hybrid style/language documents.Engineered an OpenCV pipeline utilizing gamma correction and morphological erosion to reconstruct fragmented stroke topology, significantly improving recognition accuracy for variable-pressure inputs.Integrated PaddleOCR with a custom spatial sorting algorithm to resolve non-linear alignment artifacts, enforcing strict coordinate-based reading order across multi-line text when recognizing text.	
CDS Macro Tracker <i>iOS Application</i>	August 2025
<ul style="list-style-type: none">Developed a native iOS application in Swift using a declarative SwiftUI front-end and MVVM architecture to provide a clean, responsive user interface for displaying nutritional data.Implemented a client-side web scraper using URLSession and SwiftSoup to parse HTML and JSON from the UNC Dining website; successfully reverse-engineered internal AJAX requests to fetch and display real-time nutritional information.	
Drum Rhythm Game <i>VR Game - CARVR</i>	May 2025
<ul style="list-style-type: none">Developed a VR rhythm game for Oculus platform using Unity's XR Toolkit and engineered a custom beat-mapping system with C# that uses parsed musical data and algorithmically generates dynamic visual cues for an interactive gameplay experience.	

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C, C#, SQL, Swift, HTML/CSS, R

Frameworks, Libraries & APIs: React, Node, Flask, Pandas, Numpy, Scikit-learn, SwiftUI, OpenCV

Tools/Design: Git, Unity, Docker, Tableau, RStudio, PostgreSQL/MySQL, Xcode, Snowflake, REST APIs