# SUDEEP KUMARESHAN

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## EDUCATION

**NORTH CAROLINA STATE UNIVERSITY –** Raleigh, NC                    August 2023 – May 2027
B.S. in Computer Science: Concentration in AI
GPA 3.83 / Dean List

## EXPERIENCE

**Beats by Dre Data Analytics: Qualitative & Quantitative Insights Externship**        Jun 2025 - Present
- Used Python to analyze customer feedback, capturing sentiment and emotions from reviews and surveys
- Used AI tools to enhance the efficiency and accuracy of data analysis processes
- Cleaned and organized datasets for effective analysis

**NC State University, Computer Science TA**        Jan 2025 - Present
- Assisted students in learning fundamental computer skills, including operating systems, networking, UNIX, HTML, CSS, Excel, GitHub, and computer hardware.
- Hold weekly office hours to guide students and help them troubleshoot their problems

**NC State University, Tutor**        Jan 2024 - Present
- CRLA Certified Tutor who facilitated review sessions with students in traditionally difficult courses, Chemistry and Calculus
- Independently executed content-focused tutoring sessions while accounting for and accommodating the different needs of students

## PROJECTS/SKILLS/CERTIFICATION

**Trail Manager:** Java | JUnit | ECL Emma | SpotBugs | Jenkins | Eclispe IDE | GitHub
- Built core distance calculation logic based on requirements and use cases. Used map and list data structures
- to ensure efficient runtime
- Conducted unit testing with JUnit and integrated continuous testing through Jenkins.
- Improved code quality by analyzing and fixing potential bugs with SpotBugs and ensuring code coverage with ECL Emma.
- Conducted Experimental and Comparative Analysis with different types of data structures

**Wolf Scheduler:** Java | JUnit | ECL Emma | SpotBugs | Jenkins | Eclispe IDE | GitHub
- Built core scheduling logic to check for conflicts between courses.
- Conducted unit testing with JUnit and integrated continuous testing through Jenkins.
- Improved code quality by analyzing and fixing potential bugs with SpotBugs and ensuring code coverage with ECL Emma.

**QuickSplit:** Python | REST APIS | Flask | HTML | CSS | VS Code | GitHub (in progress)
- Web App that upload a receipt and allows you to split the bill accordingly

**Languages:** Java | Python | C | R | Swift | JavaScript | HTML | CSS
**Tools**: REST APIS | Git | GitHub | RStudio | JUnit | Static Analysis Tools | Flask | IDEs
Microsoft Azure Python Certification                    2022

## RELEVANT COURSEWORK / CAMPUS INVOLVEMENT

| | |
|---|---|
| **ST370:** Probability and Statistics for Engineers | Fall 2024 |
| **CSC216/217**: Software Development Fundamentals & Software Development Fundamentals Lab | Fall 2024 |
| **CSC230**: C/Software Tools | Spring 2025 |
| **CSC316**: Data Structures and Algorithms | Spring 2025 |
| **CSC246**: Concepts and Facilities of Operating Systems | Fall 2025 |
| **CSC520**: Artificial Intelligence | Fall 2025 |
| **App Development Club** | Fall 2024 |
| **UI / UX Club** | Fall 2024 |