

Akhil Motiramani

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EDUCATION

University of North Carolina at Chapel Hill

December 2025

Bachelor of Science in Computer Science, Minor in Business Administration

- GPA: 3.9/4.0
- Coursework: Data Structures and Algorithms, Object-Oriented Programming, Systems Fundamentals, Mobile/Web Development, Computer Vision, Databases, Models of Languages and Computation, Discrete Math
- Organizations/Leadership: Pearl Hacks (Director of Event Support), CS Experience Labs at UNC (Ambassador), HackNC (Development Committee), Competitive Programming Club, App Team Carolina, Kappa Theta Pi

TECHNICAL SKILLS

Languages: Python, Java, C, Go, Swift, Kotlin, Javascript, CSS/HTML, C++, SQL

Developer Tools: AWS, Apache Kafka, Docker, Django, Firebase, Git, Kubernetes, Lambda, Node.js, PostgreSQL, React, S3

Libraries: LangChain, Matplotlib, Numpy, Pandas, PyPDF2, Pytorch, Scikit-Learn, Streamlit, TensorFlow

EXPERIENCE

SAS

May 2024 – Present

Software Engineering Intern | Cary, NC

- Reduced testing times and increased accuracy by 15% by spearheading the integration of a microservice testing infrastructure (**Pact Broker**) and deploying it in **EC2 Clusters** in **AWS** cloud, assisting 10+ developers
- Decreased response time by 30% of **Java**-based microservice (built with **Gradle**) by implementing caching techniques
- Enhanced customer-facing software (built with **Spring**) by adjusting dependency injection, improving performance and reliability for 50+ global clients

Siemens Healthineers

May 2023 – May 2024

Software and Automation Intern | Cary, NC

- Increased efficiency of accounting processes by 60% by developing automations using **Python** to streamline data handling and aggregation of financial reports
- Orchestrated the development and finalization of 375+ quotes using **REST APIs**, resulting in a 22% improvement in sales
- Optimized sales by 15% by analyzing performance data of 10+ account executives using **SAP** and **Power BI**

Morgan Stanley & Upperline Code

July 2022 – August 2022

Software Engineering Intern | New York, NY

- Led a team of 4 interns to develop a web application using **Python**, **Streamlit**, and the Yahoo Finance API to predict stock prices, achieving numerous accurate predictions in short-term trials
- Developed a web application using **HTML**, **CSS**, and **Python** in collaboration with professionals at Morgan Stanley, leading to increased environmental awareness among more than 100 users
- Selected as one of 160 participants nationwide for a career development program for high-achieving students

StatProg Inc.

June 2021 – August 2021

Data Science Intern | Raleigh, NC

- Led a team of 4 data scientist interns to draw conclusions from datasets provided by the CDC
- Designed interactive graphs illustrating COVID-19 metrics from 200,000+ data points using **SAS**, **R**, and **Python**, resulting in a comprehensive visual representation of the data to be presented to 20+ healthcare professionals

PROJECTS

OneTouch LLC | Firebase, Swift, SwiftUI

January 2023 – Present

- Developed an iOS application using **Swift** catered to college students, providing resources such as a campus marketplace, tutoring center, and discussion spaces to succeed on a college campus
- Maintain **Firebase** database with 95% uptime to ensure smooth operation and data management with privacy
- Pitched app idea to various local companies alongside team, resulting in 3+ sponsorships

I-Do | Angular, AWS, Firebase, JavaScript, Node.js, Python, TensorFlow

May 2024 - Present

- Increased wedding planning efficiency by over 30% for soon-to-be-married couples by developing a **Chrome extension** that integrates comprehensive resources and tools
- Enhanced venue selection and wedding arrangements by generating custom images using **machine learning** algorithms with **Stable Diffusion**, improving visual representation and customization
- Implemented robust backend monitoring and maintenance protocols using **Node.js**, ensuring a seamless and uninterrupted user experience for all couples using the extension

Home Formulations | Flask, HTML/CSS, Matplotlib, Pandas, Python, REST API

November 2022

- 1st place in UX/UI Category of HackNC Hackathon 2022
- Analyzed weather data, soil conditions, and historical planting success rates to provide users with an accurate planting window, resulting in a 30% increase in successful vegetable yields
- Seamlessly integrated 3 **APIs** to gather real-time data, enhancing the accuracy of the proprietary math model