

ANISH PATEL

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Education

University of North Carolina at Chapel Hill

Expected May 2027

B.S. Computer Science, B.S. Statistics and Analytics (GPA: 3.75/4.0)

Chapel Hill, North Carolina

Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Systems Fundamentals, Object-Oriented Programming, Foundations of Programming

Honors and Awards: Dean's List: Fall '24, Spring '25, Fall '25

Experience

Software Engineering Intern

June 2025 – August 2025

Sports Media Inc.

Remote

- Increased login success by **30%** and reduced reported issues by **25%** by developing a token-based authentication system in **Python and Java**.
- Cut page load times by **1.2s** by optimizing API calls and implementing mobile-first design updates across the platform.
- Deployed features to **5,000+ accounts** by collaborating with a cross-functional team of 5 engineers using **GitHub** and **Agile** sprint methodology.

Research Intern

August 2023 – May 2024

North Carolina A&T State University

Greensboro, NC

- Achieved **95%+ classification accuracy** detecting CAN bus cyberattacks by implementing and evaluating **5+ ML models** (RF, KNN, SVM, Isolation Forest) using **Python, Pandas, and Scikit-learn**.
- Boosted model detection performance by **20%** through preprocessing, feature engineering, and cross-validation pipelines built with **Pandas** and **Scikit-learn**.
- Co-authored a **peer-reviewed publication** by presenting research findings at the **2024 icABCD Conference** on automotive cybersecurity.

Computer Support Technician

September 2024 – May 2025

UNC School of Dentistry

Chapel Hill, NC

- Achieved a **90% first-contact resolution rate** by resolving connectivity and configuration issues for **150+ faculty, staff, and students**.
- Reduced new user downtime by **35%** by completing **100+ hardware and software tasks** including PC setup, re-imaging, and secure data transfers.
- Streamlined academic system integration for **50+ users** by leading onboarding sessions for both personal and university-issued devices.

Projects

SideLine | *React, Node.js, WebSockets, Python, PostgreSQL*

- Engineered a **real-time NBA analytics dashboard** aggregating live game data and betting odds from **3+ external APIs** via **WebSocket** connections.
- Built a **Python data pipeline** to normalize and store historical data in **PostgreSQL**, enabling line movement tracking across 1,200+ games.
- Implemented a **prop bet screener** cross-referencing live player performance against sportsbook lines to surface favorable opportunities in real time.

KarvBill | *Python, AWS, Pandas, Machine Learning*

- Architected an **end-to-end data pipeline** using **Pandas** and **AWS Textract** to ingest, parse, and normalize itemized medical bill data across multiple claim formats for downstream anomaly detection.
- Enhanced billing anomaly detection by integrating **ML-based and rule-driven validation checks** against structured claim data to surface pricing discrepancies and duplicate charges.
- Enabled scalable request handling by deploying backend services on **AWS Elastic Beanstalk** with **S3-backed storage** and simplified **CI/CD workflows**.

CodeScan | *Python, Flask, React, OpenAI API*

- Built a **full-stack AI code review tool** that analyzes code snippets via the **OpenAI API**, surfacing bugs, security vulnerabilities, and style improvements in real time.
- Developed a **Flask REST API** backend and **React** frontend with syntax-highlighted input and structured feedback rendering across 10+ programming languages.

Technical Skills

Languages: Python, Java, C, C++, JavaScript, Typescript, SQL, HTML/CSS, Bash, Go (Golang)

Developer Tools: React, Node.js, Express.js, Flask, Git/GitHub, Maven, Webpack, VS Code, Jupyter Notebook, Docker

Libraries/Frameworks: Pandas, NumPy, Matplotlib, scikit-learn, PyTorch, REST APIs, WebSockets