

Aniketh Arvind

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EDUCATION

North Carolina State University

Bachelor of Arts in Computer Science

Raleigh, NC

Aug. 2024 – May 2027

EXPERIENCE

HackNC Fidelity Quickvest AI Hackathon

University of North Carolina at Chapel Hill

October 2025 – October 2025

Chapel Hill, NC

- Collaborated to build a voice assistant that guides users through account setup in a conversational way.
- Built the front end in Next.js and React with voice input, real-time form filling, and clear feedback for a smooth signup experience.
- Developed a voice-to-AI pipeline using ElevenLabs STT/TTS and Gemini 2.5 Flash for structured data extraction and contextual follow-ups.

NC State Social Impact Hackathon

North Carolina State University

February 2025 – February 2025

Raleigh, NC

- Collaborated with a team to develop a prototype web application using React, Next.js, and Firebase to connect students with tutors, streamlining academic support
- Designed a responsive UI using React and Tailwind CSS, ensuring an intuitive and user-friendly experience across devices.
- Implemented Firebase Authentication for secure user login and Firestore to store user profiles, schedules, and chat messages.

PROJECTS

Cache Royale | Python, C++, Docker, OpenAI, RAG, SQL

June 2020 – Present

- Improved CacheForge, an LLM-driven cache replacement policy framework, to improve, generation and evaluation of C++ replacement policies
- Applied retrieval-augmented generation (RAG) to guide policy mutations using historical performance and prior code changes.
- Co-authored a research paper documenting methodology, experiments, and findings.

Wolf Cafe | Java, Javascript, Spring Boot, Maven, Rest API, React, JUnit, SQL, Git

May 2018 – May 2020

- Collaborated on evaluating and testing multiple CoffeeMaker implementations to select a stable foundation for the WolfCafe project.
- Built and tested backend services using Java, Spring Boot, Maven, and REST APIs; ensured functionality with JUnit.
- Developed and reviewed frontend components with React and JavaScript, integrating with backend APIs.
- Managed database interactions using SQL and tracked code changes using Git.

Wolf Scheduler | Java, Jenkins, Git

May 2018 – May 2020

- Built a course scheduling system using Java to manage courses and events efficiently.
- Utilized Jenkins for continuous integration, automating builds, testing, and deployment pipelines.
- Used GitHub for version control and team collaboration through pull requests and code reviews.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS,

Frameworks: Spring Boot, React, Node.js, Next.js, Flask, JUnit, WordPress, RestAPI

Developer Tools: Git, Jenkins, Docker, Maven, VS Code, PyCharm, IntelliJ, Eclipse

Libraries: JUnit, Tailwind CSS, OpenAI, Gemini, ElevenLabs, RAG