Anish Parepalli

U.S. Citizen | Email | Linkedin | Github

EDUCATION

University of North Carolina Chapel Hill   Chapel Hill, NC
Bachelor of Science in Computer Science, Statistics   *Graduating December 2026*
- **Coursework**: Data Structures & Algorithms, Database Systems, Probability & Statistics, Foundations of Software Engineering, Linear Algebra
- **TA**: Data Structures in Java (Fall 2025)

TECHNICAL SKILLS

Languages: C/C++, Python, Java, Kotlin, TypeScript, JavaScript, HTML/CSS, Assembly, Swift/SwiftUI, SQL
Developer Tools & Frameworks: React.js, Angular, Node.js, PostgreSQL, NumPy, Pandas, Matplotlib, JUnit
Interests: Data Analytics, Hackathons, Fintech, Soccer, Taekwondo

EXPERIENCE

The Vanguard Group   *May 2025 – Aug. 2025*
Software Engineering Intern
- Built an internal triage tool for **Vanguard Personalized Advice** in **Python** and **TypeScript** to automate error assignment to **Jira** tickets, reducing manual triage time by **80%** and supporting the reliability of a platform managing over **\$333B in client assets**.
- Integrated **JIRA API** and used **AWS Lambdas** and **Amazon Aurora** to enable real-time error tracking, ticket creation, and team-based routing, replacing a static error table with a dynamic, scalable table and creating a workflow.

Computer Science for Social Good   *Aug. 2023 – Aug. 2024*
Software Engineer Intern
- Improved data management efficiency by developing a Filter-UI using **Python**, **SQL**, and **React**, increasing record retrieval speed by 40%.
- **Automated data-driven user onboarding processes** with **Firebase**, significantly reducing onboarding time by 60%.
- Conducted **thorough code reviews and cross-functional team meetings** to enhance data quality and streamline operational processes.

UNC School of Medicine   *Jul. 2023 – Aug. 2024*
Technical Intern
- **Resolved 100+ technical issues within 24 hours for 98%** of cases, by providing prompt and effective technical support to users.
- Developed responsive, **data-driven web applications, effectively interpreting user requests** and translating them into actionable improvements.

PROJECTS

The Pastebin + URL Shortener | *PasteBin + URL Shortener*
- Built a robust backend using **SQL, Python, and RESTful APIs** to handle **data storage and retrieval**.
- Deployed on **Kubernetes OKD**, enabling seamless **data management** through advanced cluster management practices.
- Designed and implemented a **dynamic frontend with Angular and TypeScript**, providing users with effective data visualization and accessibility.

Tax Optimization Web App | *Python, Flask, AWS Bedrock*
- Developed a **web application** to calculate state tax-exempt portions of fund dividends, eliminating **100%** of manual lookup time via automated data extraction and transformation.
- Designed a **RESTful API** integrated with **AWS DynamoDB** to serve real-time financial data and refund rates for 300+ mutual funds.
- Integrated **Bruno** for API testing and debugging, and leveraged **AWS Bedrock** to call **Anthropic's Claude model** in the backend, enabling a dynamic AI advisor that delivers personalized tax guidance based on user portfolio data and fund efficiency metrics.