

Anirudh Jain

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EDUCATION

Duke University

Aug. 2022 – May 2026

Bachelor of Science in Computer Science (Concentration in AI/ML); GPA: 3.74/4.0

Durham, NC

- Relevant Coursework: Data Structures & Algorithms, Computer Systems, Database Systems, Machine Learning, Linear Regression, Computer Vision (Graduate), Advanced Algorithms, Financial Derivatives (Graduate), Blockchain

EXPERIENCE

Crestron Electronics

May 2024 – Aug. 2024

Firmware Engineering Intern — Node.js, Bash, SVN, Docker, Jenkins, Jira

Plano, TX

- Studied the product workflow for Crestron's audio products (DM-NAX) including firmware development, integration, and deployment processes
- Implemented comprehensive testing protocols using FTP, SSH, and Crestron's XPanel software to validate firmware builds
- Developed automation scripts to streamline firmware deployment and testing processes, reducing manual intervention
- Optimized real-time audio processing and control algorithms, improving reliability and system efficiency by 20% for audio devices (DM-NAX-8ZSA)

Department of Computer Science, Duke University

Aug. 2023 – Present

Teaching Assistant for Discrete Math (CS230) and Intro to Machine Learning (CS371)

Durham, NC

- Conducted weekly office hours for 300+ students, assisting with proofs, probability, graph theory, and algorithms
- Graded exams and projects; Interviewed new TA recruits; Received "Outstanding TA of the Year" award.

Fyllo

Jun. 2023 – Aug. 2023

Software Engineering Intern — ReactJS, Python, Langchain, API

Bengaluru, India

- Developed a chatbot using DialogFlow, which improved user engagement by 15%; delivered a minimum viable product
- Integrated the chatbot into existing app using ReactJS and JavaScript
- Trained the model for intent recognition and entity extraction leveraging LLM models like GPT-4 to enable knowledge-augmented responses in multiple languages including Marathi and Hindi
- Implemented dynamic functionality using Python and REST API to connect the chatbot with Fyllo's database

Duke Blockchain Lab

Oct. 2022 – Jan. 2023

Research Fellow

Durham, NC

- Project: Fundamental Valuation of Utility Tokens funded by Duke Bass Connections Student Award
- Studied blockchain consensus algorithms and tokenomics to propose a framework to value utility tokens

PROJECTS

Fortis - Full-Stack Fitness Tracker | *Next.js, PostgreSQL, Vercel*

[\(WebApp Link\)](#)

- Developed web application using NextJS for frontend and PostgreSQL for data management
- Built dynamic data analysis and visualization tools for tracking progress and personally managed database schema
- Designed functionality for logging exercises, pairing with gym buddies, and sharing customizable workout templates

Text Tone Changer - Chrome Extension | *JavaScript, Flask, HTML/CSS*

- Developed a Chrome extension to change the tone of selected text on webpages by integrating natural language processing
- Implemented a backend Flask server to handle API requests and responses, between the extension and NLP model
- Enhanced user experience by utilizing asynchronous JavaScript for real-time text transformation

Astrapia - Dynamic Web Application to Track Stocks | *Python, Pandas, Streamlit, API*

- Developed dynamic web application for visualization of data to analyze stock trends of the S&P500
- Plotted candle graphs with Bollinger bands using Cufflinks for advanced analytics

Restaurant DBMS - Full-Stack Database Management System | *Python, SQL, Tkinter*

- Developed a full-stack Database Management System for management of operations of an outlet store
- Created functional UI using Tkinter; managed data using Python-MySQL connectivity

SPECIALIZED SKILLS

Languages: Python, SQL, Java, C, JavaScript, HTML/CSS, R, Assembly (x86_64)

Technologies & Tools: NodeJS, React, Next.js, Git, SVN, TensorFlow, Numpy, Pandas, PyTorch, LangChain, Figma, Jira, MongoDB, Bash, Docker, VS Code

Interests: Table Tennis, Duke Quantitative Finance, Stock Market Investing, Spreadsheets, Poker