

NIKHIL PRATAPAGIRI

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EDUCATION

University of Massachusetts Amherst | GPA: 3.8

Commonwealth Honors College | Bachelor of Science | Major: Computer Science

Amherst, MA

Expected May 2026

Relevant Coursework: Data Structures (Java), Object Oriented Programming (Java), Computer Systems Principles (C), Discrete Math

PROFESSIONAL EXPERIENCE

Technology Intern

October 2024- Present

Northeast Biogas Initiative

Amherst, MA

- Engineered a sensor-based system for biodigesters using Arduino, automating monitoring processes and improving efficiency.
- Contributed to the NEBiogasInitiative by updating its website with a Django backend and SQL database, while leveraging HTML, CSS, and JavaScript to enhance user experience and functionality.
- Strengthened skills in hardware integration, web development, and database management through hands-on implementation.

Full-Stack Developer

June 2024- Present

Creme Cutz Shoppe

Shirley, MA

- Architected and developed a dynamic web page for a local barbershop, delivering a streamlined online queue system for client check-ins and real-time wait time updates.
- Expertly crafted the interactive frontend using the React library, while engineering a robust backend and data storage solution with Node.js and MongoDB, leveraging the full MERN stack for optimal performance.

LEADERSHIP & INVOLVEMENT

Team Associate

September 2023- Present

UMass Amherst Cybersecurity Club

Amherst, MA

- Utilized UTM emulator within the Cybersecurity Club to simulate Linux environments, enhancing hands-on experience in network security and system administration for real-world cyber defense scenarios

Team Associate

September 2023- Present

UMass Amherst Chess Club

Amherst, MA

- Collaborate with fellow enthusiasts to enhance strategic thinking, problem-solving skills, and foster a sense of camaraderie through modes of competitive gameplay and chess-related events

Founding President

October 2021-May 2023

LHS Programming Organization

Littleton, MA

- Aimed to create a culture of ~30 like-minded individuals in which budding programming leaders and striving tech entrepreneurs can easily obtain programming mindsets and support their like-minded peers
- Lead meetings and discussions, host guest speakers (prominent programmers in the workforce industry) at Programming Club events, and aim to create a safe space for LHS students to engage in conversation and form networks with the guest programmers and tech entrepreneurs

Tech Support Lead

June 2019- May 2023

Tiger Tech

Littleton, MA

- Led a student-run program to help senior citizens in their usage of basic technology and repaired chromebooks and other school-owned devices for proper optimization, saving \$7,500 within the school budget
- Assigned and integrated roles and responsibilities, managed the advertising team, and researched trend analysis for efficient strategy in chromebook repair, and conducted school budget research

KEY PROJECTS

URateMyCourse

November 2024-Present

HackUMass

Amherst, MA

- Developed a full-stack Django application enabling UMass Amherst CS students to write reviews on specific courses, displaying 1-5 star rating and associated descriptions. Implemented using a SQLite database with an HTML, CSS, and JavaScript frontend.

Parkify

March 2022

Web Development

Shirley, MA

- Designed an intuitive application that streamlines city parking by navigating to open spots in metropolitan areas. Developed the application using a Python Streamlit interface integrated with a Google Sheets API database, further enhancing technical expertise.

SKILLS, ACHIEVEMENTS, AND INTERESTS

Applications/Skills: React, Angular, Python, Java, Javascript, HTML, CSS, Eclipse, VSCode, StreamLit, Django, Swift, Google Analytics, Excel, Microsoft Office, C, SQL, Detail-oriented, Leadership, AWS, Azure, Postman, Problem-solving, Pandas, Numpy, PostgreSQL;

Languages: English (fluent), Telugu (advanced), French (proficient);

Achievements: Dean's List, National Youth Leadership Award: Engineering, Responsive Web Design freeCodeCamp certificate.