

# Shreyas Donti

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## EDUCATION

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### University of Massachusetts Amherst

*Exp. Graduation May 2027*

- B.S in **Computer Science & Electrical Engineering** with **Multidisciplinary Honors** (3.94 GPA)
- **Coursework:** Data Structures & Algorithms, Intro to C Programming, Object Oriented Programming, Exploring Modern Computing, Calculus, Linear Algebra, Circuits & Electronics, Digital & Computer Systems
- **Societies:** UMass Cybersecurity Club, UMass Machine Learning Club, Model United Nations, Indian Student Union, Asian American Student Association

## EXPERIENCES

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### Undergraduate Research Volunteer

*May 2024 - August 2024*

*Manning College of Informatics & Computer Sciences*

*Remote*

- Collaborated with a team of 3 other members under the guidance of PhD candidate Amir Radmehr to investigate human activity recognition using IMUs.
- Created and designed a posterboard to present research results in an easy-to-digest format, employed Matplotlib and Seaborn to display statistical results.
- Designed a 1-D CNN deep learning model using PyTorch and Pandas to classify human activities from raw triaxial gyroscope and accelerometer data with 92.5% accuracy

### Technology Team Organizer

*May 2024 - Present*

*HackUMass XII*

*Amherst, MA*

- Working with a team of 5 other students, collaborating using Basecamp and Figma boards, and developing the website using JavaScript, HTML, and CSS
- Designing the website for HackUMass XII, a two-day hackathon hosted by the University of Massachusetts Amherst with 800+ participants

## PROJECTS

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### C++ Game Engine

*Feb 2022 - Jan 2024*

- Enhance understanding of multimedia programming, advanced C++ object-oriented programming, Git, and software development strategies
- Developed an open-source 2D game engine in C++ using OpenGL and SDL for designing graphical applications and video games, with window and input management, graphics rendering, and audio playing features.

### Independent OpenGL Research Paper

*April 2022 - Oct 2022*

- Published on SSRN under the Theoretical Computer Science eJournal; made Top 10 downloaded list in eJournal on July 2023
- Conducted research investigating data transfer bottlenecks in modern OpenGL; identified optimizations and use cases under the mentorship of Dietrich Geisler, Computer Science PhD candidate at Cornell

### Resume Generator App

*Jun 2024 - July 2024*

- Learnt full-stack web development, REST API, SQL, database management, and state management.
- Created a resume generator with React.js, Django/Python, and SQLite that allows users to design and customize resumes with a modular approach

## SKILLS

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- **Programming Languages:** C, C++, Python, SQL, Lua, Rust, JavaScript, Bash, Java, Go, Assembly
- **Tools:** Git, React.js, Django, OpenGL, SDL, REST, Slack, HTML/CSS, Unix, Figma, NodeJS