Justin Manoj (he/him)

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</> justinm-personalportfolio.vercel.app

Education

University of Massachusetts - Amherst *4+1 M.S Program, Honors College* *May 2027, 2028*
B.S in Computer Science - 3.8/4.0
- **Coursework:** Algorithms, Data Structures, Computational Theory, Applied Statistics and Linear Algebra, Programming Methodology, Artificial Intelligence, Computer Systems, Object-Oriented Programming
- **Clubs:** CICSSoft, Cybersecurity Club, HackUMass, Mass Mirchi (Men's Indian Dance Team)
- **Awards:** Chancellor's Award ($16k/yr), NYS Scholarship for Academic Excellence, Dean's List (all sems)

Experience

Software Developer *Boston, MA*
ChitChat Workplace *April 2025 – Present*
- Co-developed "ChitChat," an internal communication platform designed to enhance organizational productivity through AI-powered messaging, email integration, and customizable widgets, that eliminates the need to switch between multiple applications.
- Integrated Microsoft Graph API for email and calendar, utilizing Azure MSAL for secure authentication, and implemented features such as real-time chat, notifications, and user interactions.

Software Developer Intern *Alberta, CA*
GBCS Group/SkyIT Services *March 2025 – Present*
- Developed and enhanced an internal web application using React.js, Next.js, TypeScript, Prisma ORM, PostgreSQL, and deployed on Microsoft Azure, improving functionality and user experience.
- Built responsive UI components with Tailwind CSS and implemented modular features; conducted code reviews to ensure quality and adherence to best practices/policies.
- Collaborated in Agile teams, and created technical documentation to streamline accessibility and onboarding.

Undergraduate Student Researcher *Amherst, MA*
Early Research Scholars Program - UMass Amherst *Dec 2024 – Feb 2025*
- Designed and conducted a comprehensive survey on cyber-threats associated with Generative AI and LLMs
- Collaborated with a team to analyze AI-related attack vectors (jailbreaking, data poisoning, etc) and implement methodologies for assessing their impact. Compiled findings into a research poster on AI-related cybersecurity threats and mitigation techniques.

Projects

Roam App
- Built an AI-powered destination finder app that helps adventurous travelers discover suitable travel locations through OpenAI API integration and personalized recommendations.
- Created a travel discovery platform featuring destination analysis and comprehensive location information to streamline travel planning. Processes user preferences to generate targeted destination suggestions.

Weather App
- Created a full-stack web application using Next.js, TypeScript, and Redux Toolkit with OpenWeatherMap API integration, featuring offline functionality, geolocation services, and deployed on Vercel with CI/CD pipeline.

Sticky Note App
- Built full-stack sticky notes web application with Next.js and PostgreSQL database integration, featuring comprehensive CRUD operations for seamless note creation, editing, and deletion functionality.
- Implemented Prisma ORM to manage PostgreSQL operations with type-safe queries and automated schema migrations. Containerized application architecture using Docker for consistent deployment environments.

Skills

- **Languages and Frameworks:** Java, Python, C++, JavaScript, TypeScript, SQL, R, PHP, HTML/CSS
- **Tools and Methodologies:** Git, React, NumPy, Matplotlib, Flask, AWS, Agile, MySQL, GraphQL, Postgres, Prisma, Pandas, Shell, Jest, Tableau, Docker, Excel