

# Justin Manoj (he/him)

☎ 845-633-1106 ✉ justinmmanoj@gmail.com in linkedin.com/justinmmanoj </> jmanoj.vercel.app 🐙 github.com/jmanoj01

## Education

**University of Massachusetts - Amherst** *(Commonwealth Honors College)*

Amherst, MA

B.S. in Computer Science & Mathematics — GPA: 3.7/4.0

Graduation: May 2027

- **Relevant Coursework:** Algorithms, Scalable Web Systems, Operating Systems, Machine Learning, Search Engines, Data Management, Programming Methodology, Computational Theory, Applied Statistics & Linear Algebra
- **Extracurriculars:** CICSSoft, BUILD UMass, Cybersecurity Club, HackUMass, Mass Mirchi (Men's Fusion Dance)
- **Honors & Awards:** Chancellor's Award, NYS Scholarship for Academic Excellence, Dean's List (all semesters)

## Technical Skills

- **Programming Languages:** Java, Python, C/C++, JavaScript/TypeScript, SQL, R, PHP
- **Frameworks & Tools:** React, Next.js, Prisma, Tailwind, Flask, Git, Docker, Jest
- **Data & Cloud:** AWS, Postgres, MySQL, GraphQL, PyTorch, Pandas, NumPy, Tableau, Jupyter Notebook, Excel

## Experience

**Full-Stack Software Developer**

*Boston, MA*

ChitChat Workplace

*April 2025 – Present*

- Co-developed ChitChat Workplace, an all-in-one internal communication platform that **boosts organizational productivity by 25%** by centralizing AI-integrated messaging, email, and customizable widgets.
- Reduced the average employee context-switching time between applications by **at least 10 hours** annually.
- Integrated Microsoft Graph API and Azure MSAL to enable secure email and calendar functionalities, supporting over **5,000 daily real-time chat messages** and improving critical **notification delivery by 40%**.

**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, and PostgreSQL, deployed on Microsoft Azure, reducing load times and improving functionality.
- Built **over 30 responsive UI components** with Tailwind CSS and implemented modular features; conducted code reviews for **100+ pull requests** to ensure quality and adherence to best practices.
- 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**.
- Analyzed **10+ AI-related attack vectors** (e.g., jailbreaking, data poisoning) and developed methodologies for assessing their impact. Compiled findings into a research poster presented to faculty and peers.

## Projects

**Roam Traveler App** *OpenAI API, React, REST API, Tailwind, Next.js, Prisma ORM*

- Developed an **AI-powered destination finder app** using Next.js, React, and Tailwind CSS.
- Integrates OpenAI API to deliver personalized travel recommendations **40% faster** than manual search.
- Leverages REST API and Prisma ORM to process **500+ data points per query**, to provide **in-depth analysis**.

**Weather App** *OpenWeatherApp API, TypeScript, React, REST API, Tailwind, Next.js*

- Built a full-stack weather application using Next.js, TypeScript, and OpenWeatherMap API to provide **real-time** weather.
- Implemented **offline accessibility** and **location-based services**, ensuring seamless access to forecasts and updates.

**Sticky Note App** *TypeScript, React, Tailwind, Next.js, Clerk, LiveBlocks, Docker, Prisma ORM*

- Built a full-stack sticky notes application with Next.js, TypeScript, React, and PostgreSQL database integration, featuring CRUD operations for **seamless note creation, editing, and deletion** functionality.
- Integrated LiveBlocks for collaboration supporting **50+ concurrent users**, Clerk for authentication, and Prisma ORM with Docker to **cut deployment setup time by 90%** and automate DB migrations.