

Sai Srujan Vemula

svemula@quinnipiac.edu | [LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [Medium](#) | Hamden, CT

EDUCATION

Quinnipiac University | M.S in Computer Science | GPA: 3.89

December-2025

I am currently pursuing research on integrating AI-driven security measures into the SDLC.

Lovely Professional University | Bachelor of Engineering in Computer Science | GPA: 3.4 |

June-2023

Relevant Courses: Python, Operating Systems, Data Structures & Algorithms, Web Technologies, Software Engineering.

SKILLS

Programming Languages:

Java, Python, C++, C, JavaScript

Web Development:

HTML, CSS, React.js, Node.js, Express.js, JSON, XML, REST APIs

Frameworks & Libraries:

Spring (Core, Boot, MVC), Liferay, OSGi, Bootstrap, pandas, NumPy, Matplotlib, scikit-learn

Databases & Cloud:

MongoDB, MySQL, SQL, AWS (EC2, RDS, DynamoDB, Neptune, DocumentDB)

Tools & Technologies:

Git, GitHub, Docker, Postman, VS Code, IntelliJ, Anaconda, Jupyter Notebook, Tableau, Kali Linux, VMware

Methodologies & Concepts:

Agile, DevOps, SDLC, UI/UX Design, Cybersecurity, Automation Scripting, Selenium, CI/CD, Data Preprocessing, EDA

WORK EXPERIENCE

Quinnipiac University | Graduate Assistant | Hamden, CT

August-2024-present

- Applied advanced proficiency in Microsoft Excel and Office Suite for data management and reporting, developed automation scripts, showcasing programming skills to streamline administrative tasks.
- Strengthening organizational and project management skills through effective tracking and monitoring processes.

Carelon Global Solutions | Associate Software Engineer | Bangalore, India

November 2023 – January 2024

- Collaborated with cross-functional teams to gather healthcare software requirements and enhance Agile ceremonies
- Gained insight into U.S. health insurance systems, refining prototypes to align with industry and UI standards.

Cognizant Technology Solutions | Software Intern | Hyderabad, India

January 2023 – July 2023

- Optimized portal performance using Liferay, Java, and Spring MVC, reducing system load times by 25%, Led user interface enhancement initiatives, improving user satisfaction through streamlined design and functionality.
- Collaborated closely with senior developers to troubleshoot and resolve technical challenges, ensuring smooth deployment and integration, I took responsibility for designing and developing the Employee Management Portal using relevant technologies such as Liferay, Java, and Spring MVC.

HighRadius | ML-Intern | India (Remote)

January 2022 – April 2022

- Led the development of a full-stack web product from concept to deployment, integrating a user-friendly interface with machine learning algorithms. Designed and implemented a data model that improved backend performance and reduced response times by 30%.

PROJECTS & EXTRACURRICULAR ACTIVITIES

AWS Database Converter | Python, AWS, Flask, HTML/CSS |

- Built a web app with GUI to upload CSV and convert data across AWS databases (RDS, DynamoDB, Neptune, DocumentDB)
- Automated schema mapping and data migration on EC2 using Python wrappers
- Ensured clean data handling and real-time feedback via Flask backend on Linux servers

E-Commerce Cart Application | React.js, Node.js, Express, JSON, HTML/CSS

- Developed a full-stack e-commerce cart system with authenticated routes and JSON-based backend persistence
- Implemented “Add to Cart” functionality with conditional rendering and route protection
- Designed /cart page with dynamic cart updates, ensuring seamless user experience across sessions

Ransomware Cyber Competition

- Conducted by Quinnipiac University and Hartford HealthCare, I accepted the CISO role, conducted a thorough analysis of the situation, and authored a well-structured report outlining the necessary steps to be taken, ultimately earning the first prize.