

Saran Jagadeesan Uma

Boston | Massachusetts | 02120 | (857) 693 3433 | jagadeesanuma.s@northeastern.edu

github.com/Saran-Jagadeesan-Uma | linkedin.com/in/saran-jagadeesan-uma

Available: May 2026

EDUCATION

Northeastern University , Boston, MA	Sept. 2024 – Present
Khoury College of Computer Sciences	Expected graduation: May 2026
Master of Science in Computer Science	GPA: 3.867/4.0
Related courses: Programming Design Paradigm, Algorithms, Web Development, Database Management Systems	
Anna University , Chennai, India	Sept. 2020 – May 2024
Bachelor of Engineering in Computer Science	GPA: 3.9/4.0
Related courses: Data Structures, Object Oriented Programming, Software Engineering, Design and Analysis of Algorithms	

TECHNICAL KNOWLEDGE

Languages:	Java, JavaScript, SQL, Python, C++, HTML, CSS, Kotlin, Dart
Technologies:	MySQL, MongoDB, React, Node.JS, MySQL, Git, Postman, Docker

WORK EXPERIENCE

Northeastern University , Boston, USA	Sept. 2025 – Present
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Teaching Assistant

- Guided students in applying software engineering practices such as version control with Git/GitHub, API testing with Postman, and collaborative workflows for large-scale projects.
- Mentored project teams building full-stack applications with the MERN stack (MongoDB, Express, React, Node.js), emphasizing scalable design, clean code, and deployment best practices.
- Facilitated team collaboration and provided leadership support, helping students adopt agile methodologies (scrum, sprint planning, peer code reviews) to manage group software projects effectively.

Dubai Technologies , Dubai, UAE	June 2023 – July 2023
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Software Engineering Intern

- Developed IoT-enabled mobile application with cloud infrastructure, increasing data handling capacity.
- Implemented robust APIs, data redundancy, and failover mechanisms, achieving system availability.
- Developed RESTful APIs to enhance frontend-backend communication, reducing integration errors.

PROJECTS

Imaginator Image Processing and Manipulation Toolkit GitHub	Sept 2024 – Dec 2024
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- Engineered a Java-based image processing toolkit using the Model-View-Controller (MVC) architecture.
- Utilized Java Swing to create an intuitive graphical user interface with real-time preview capabilities, enhancing user experience and productivity.
- Wrote over 300 Junit4 tests with a collaborative team to ensure optimum functionality of the tool.

Intern Search Full Stack Job Search Platform Java MVC, Junit4 GitHub	Sept 2024 – Dec 2024
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- Built a full-stack web app with React and Node.js for dynamic internship search, filtering, and management.
- Optimized SQL queries using indexing and JOINs, reducing execution time and enhancing app performance.
- Designed a RESTful API with MySQL, optimizing queries to reduce latency.
- Created a dynamic frontend using React hooks and reusable components, cutting development time.

Kambaz React Web Application MongoDB, Express.js, React, and Node.js GitHub	May 2025 – July 2025
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- Built a front-end web application using React, TypeScript, and Vite, leveraging fast builds and Hot Module Replacement (HMR).
- Deployed the application on Netlify, configuring build settings and continuous deployment from GitHub for seamless updates.
- Designed modular and reusable UI components with React hooks to ensure scalability and maintainability.
- Integrated backend APIs and state management using Redux for efficient data flow and real-time UI updates.