

Saran Jagadeesan Uma

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Available: May 2026

EDUCATION

Northeastern University, Boston, MA
Khoury College of Computer Sciences
Master of Science in Computer Science

Sept. 2024 – Present
Expected graduation: May 2026
GPA: 3.867/4.0

Related courses: Programming Design Paradigm, Algorithms, Web Development, Database Management Systems

Anna University, Chennai, India
Bachelor of Engineering in Computer Science
Related courses: Data Structures, Object Oriented Programming, Software Engineering, Design and Analysis of Algorithms

Sept. 2020 – May 2024
GPA: 3.9/4.0

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
Teaching Assistant

Sept. 2025 – Present

- 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
Software Engineering Intern

June 2023 – July 2023

- 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

- 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

- 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

- 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.