

# Ruchithra Sathyanarayanan

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## SUMMARY

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Master's in Software Computer Engineering, blending expertise in front-end and back-end technologies to build seamless, scalable applications. Exhibits strong problem-solving capabilities and a collaborative spirit within team environments. Communicates effectively, maintaining clarity and precision in both code and conversation. Proficient in Microsoft Office and dedicated to lifelong learning and professional growth.

## EDUCATION

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### Master's of Science in Software Engineering Systems

Northeastern University • Boston, MA • 2024 • 3.78

- **COURSEWORK** : Web Design, Object Oriented Design Pattern, Programming Structure And Algorithms, User Experience Design And Testing, IOS Application Development, Cryptography, Design Patterns, Advanced Big Data Indexing.

## SKILLS

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**Languages & Frameworks** : Python, Swift, Java, JavaScript, HTML, CSS3, UI/UX Design, Sass, React, Node.js, Redux.

**Cloud Computing**: AWS, EC2, ECS, IAM, Lambda, S3, API Gateway, Route 53, Firebase Firestore, Firebase Auth, Firebase Storage.

**Tools and Database**: Jira, Clarive, Git, VS Code, Figma, Axure RP, Mockup, Balsamiq, SQL, MongoDB.

## EXPERIENCE

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### Software Developer

Accenture Solutions

November 2021 - May 2022, India

- Design and constructed more than 10 responsive user interfaces for web and mobile applications, applying advanced technologies such as React, Redux, and CSS to deliver seamless user experiences. Performed code quality enhancements by executing SonarQube for automated code analysis, resulting in an impressive 90% improvement in code reliability and system efficiency.
- Implemented comprehensive testing efforts, creating test suites for over 200 UI components, including A/B testing, ensured optimal performance and functionality, contributing to superior user interactions.
- Participated in Agile development, making significant contributions to the continuous improvement, optimization of development workflows and code refactoring.

## PROJECTS

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### Culinary Quest - AI Powered Recipe Search IOS App

Northeastern University • <https://github.com/Ruchithrasathyan/CulinaryQuest-Recipe-Finder-App> • September 2024 -December 2023

- Led the comprehensive testing of iOS app, executing over 50 test cases, improving app reliability and reducing testing time by 30%.
- Developed and deployed an automated testing framework in Swift, decreasing manual testing efforts by 40% and enhancing continuous integration process efficiency.
- Achieved a 25% improvement in data processing speed and a 15% increase in data integrity through proficient Firebase backend integration, collaborating with a team of 5 cross-functional members.
- Applied the MVVM architectural pattern in Swift, enhancing app maintainability by 35% and testability by 50%, evidenced by a significant reduction in bug rates and streamlined feature updates.

### University Search Web Application

Northeastern University • <https://github.com/Ruchithrasathyan/University-Search-Web-Application> • September 2022 -December 2023

- Developed 'University Search', a React and Redux-based web application for international education, featuring enhanced design and alignment that improved user engagement by 30%.
- Implemented advanced filtering for university selection based on key criteria, increasing search accuracy by 40%; incorporated OAuth for secure user authentication, boosting interaction by 50%.
- Utilized a full-stack development approach with MongoDB, Node.js, Redux, JavaScript, React, HTML, CSS, and Sass, ensuring seamless integration and efficient performance.
- Optimized user interface through reusable components and efficient coding practices, resulting in a 20% reduction in load time and a 25% increase in user experience ratings.