

# THARUN MAHESWARARAO

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## EDUCATION

### Northeastern University

Boston, MA

*Master of Science in Software Engineering Systems*

*Expected December 2026*

Coursework: Concepts of Object-Oriented Design, Web Design and User Experience Engineering, User Experience Design and Testing, Network Structures and Cloud Computing

### Rajalakshmi Engineering College

Chennai, India

*Bachelor of Engineering, Computer Science and Engineering*

*May 2024*

Coursework: Programming using C, Python Programming, Design and Analysis of Algorithms, Software Engineering Concepts, Database Management Systems, Cloud Computing, Computer Networks, Cryptography and Network Security

## TECHNICAL SKILLS

**Programming:** Java, JavaScript, TypeScript, Python, C, HTML, CSS

**Frontend:** React.js, Angular, JavaFX, Sass, Redux, JSP, Material UI, Tailwind CSS, Bootstrap

**Backend:** Express.js, Node.js, Flask, Django, Tomcat, Nginx

**Database management:** PostgreSQL, MySQL, MongoDB

**Cloud & DevOps:** AWS (S3, Route 53, EC2, Lambda, CloudFront), Heroku, GitHub Actions

**Version Control/OS:** Git, Linux, Windows, MacOS

**IDE:** IntelliJ, Visual Studio, VS Code

**Collaboration:** GitHub, Zoom, Microsoft Teams

## PROFESSIONAL EXPERIENCE

### Whirldata Inc

Chennai, India

*Solutions Trainee – Intern / Full Stack Developer*

*Aug 2023 - Jan 2024*

- Led front-end enhancements for an e-commerce platform using React, addressing key bugs and 100+ client requests
- Developed a high-performance Flask API with SQLAlchemy, optimizing backend efficiency by 30%
- Streamlined data processing and cleaned large Excel datasets using Python, delivering actionable insights
- Conducted innovative Proof of Concepts in Flutter, broadening the technical scope and exploring scalable solutions

*Solutions Trainee – Intern | Network Engineer*

*Aug 2020 - Oct 2020*

- Gained experience in full-stack development and computer networks while collaborating with cross-functional teams
- Led the deployment of an OpenStack server for internal use, enhancing system performance for 50+ employees
- Addressed client requirements by automating tasks with Python scripts, improving operational efficiency by 40%
- Configured port forwarding on AWS, improving remote access and boosting efficiency by 25%

## ACADEMIC PROJECTS

### Food Recipe & Fridge Tracker App | Northeastern University

*Jan 2024 - Present*

- Developing a web application where users can input available ingredients to generate potential recipes dynamically
  - Integrated a "Track Your Fridge" feature for manual entry or receipt upload to automate inventory management
  - Implementing receipt-scanning functionality using OCR technology to extract and store itemized data efficiently
- Tech Stack:* Angular, Express.js, MySQL, AWS, GPT

### Roommate Finder | Northeastern University

*Nov 2024 - Dec 2024*

- Led a team of 4 to develop a platform that matches users with compatible roommates based on their preferences
  - Developed core features including user post creation, profile management, and the ability to edit or delete posts
  - Utilized MySQL and JDBC to enable efficient data storage, retrieval, and performance for database operations
- Tech Stack:* JavaFX, JDBC, MySQL, CSS

### Northeastern Club Hub | Northeastern University

*Nov 2024 - Dec 2024*

- Led a team of 4 in creating a platform for students to explore, search, and join university clubs
  - Built club admin features allowing admins to add new events, view their events, and modify or delete them as needed
  - Developed the event display section for students to easily view and access club events, improving overall engagement
- Tech Stack:* ReactJS, NodeJS, Express.js, MongoDB, Redux, jQuery, Material UI

## PUBLICATION

- Survey paper on "Exploring Extended Reality (XR) in the Workplace - Applications, Challenges: Survey" in IEEE Conferences: <https://ieeexplore.ieee.org/document/10369447>