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

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 SQL Alchemy, 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