THARUN MAHESWARARAO

Boston MA | (857)395-7689 | maheswararao.t@northeastern.edu | linkedin.com/in/tharun-maheswararao |
github.com/tharunmaheswararao

EDUCATION

Northeastern University | Master of Science in Software Engineering Systems   Dec 2026 | Boston, MA
  Courses: Object Oriented Design, Web Development, User Experience Design and Testing, Cloud Computing

Rajalakshmi Engineering College | Bachelor's in Computer Science and Engineering   May 2024 | Chennai, India
  Courses: Computer Networks, SDLC, Operating Systems, Database Management Systems

TECHNICAL SKILLS

Programming: Java, JavaScript, TypeScript, Python, C, Bash

Frontend: HTML, CSS, React, Redux, JavaFX, Sass, JSP, Material UI, Tailwind CSS, Bootstrap

Backend: Express.js, Node.js, Flask

DevOps Tools: AWS (EC2, VPC, IAM), GCP, Digital Ocean, Terraform, Packer, GitHub Actions

Database management: PostgreSQL, MySQL, MongoDB

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

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, low-latency 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

Cloud Infrastructure CI on AWS and GCP | Northeastern University   Jan 2025 - Mar 2025

- Implemented CI pipelines in GitHub Actions to automate Terraform, Packer, and API validation across repositories
- Enforced branch protection and status checks, ensuring only validated code was merged, reducing deployment failures
- Integrated Packer and Terraform to streamline custom AMI creation and infrastructure provisioning in AWS and GCP
  Tech Stack: Flask, MySQL, SQL Alchemy, Terraform, AWS, GCP (Compute Engine), Packer, GitHub Actions, Bash

Northeastern Club Hub | Northeastern University   Nov 2024 - Dec 2024

- Created a platform for students to seamlessly explore, search, and join university clubs, with enhanced accessibility
- 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: React, Node.js, Express.js, MongoDB, Redux, jQuery, Material UI

Roommate Finder | Northeastern University   Nov 2024 - Dec 2024

- Built a platform that matches users with compatible roommates based on preferences, enhancing the search experience
- 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