

# SWETHA PATURU

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## Education

### Northeastern University

Expected May 2024

*Master of Science in Computer Software Engineering*

Relevant Coursework: Application Engineering & Development, Web Design & User Experience Engineering,  
Concepts of Object Oriented Design, Data Management & Database Design

### National Institute of Technology Warangal, India

May 2021

*Bachelor of Technology in Electronics & Communication Engineering*

Relevant Coursework: Data Structures & Algorithms, Computer Networks

## Technical Skills

Programming Languages	Java, Python, C++, JavaScript
Web Technologies	Spring MVC, Spring Boot, NodeJS, ReactJS, REST API, HTML, CSS, jQuery
Databases	MySQL, MongoDB, Oracle
Certifications	Certified Kubernetes Application Developer (CKAD)
Tools and Technologies	Git, Docker, Kubernetes, Terraform, Linux, Hibernate, Jenkins, Kafka, Ansible, Visual Studio, Agile/Scrum

## Work Experience

### LTIMindtree

July 2021-July 2022

*Software Engineer - Cloud Native*

*Hyderabad, India*

- Managed three Kubernetes clusters across multi-cloud environments, including two on Google Cloud Platform (GCP) and one on IBM Cloud, utilizing IBM CloudPak for Multicloud Management (MCM).
- Leveraged Red Hat Advanced Cluster Management (RHACM) as a crucial component of IBM CloudPak for MCM to seamlessly deploy and manage hybrid cloud environments, streamlining application deployment and ensuring efficient multi-cloud management.
- Utilized Terraform to deploy and manage infrastructure for Kubernetes clusters, ensuring consistent and repeatable provisioning.
- Played a key role in supporting a leading US-based media client's Cloud Advisory team, contributing to acquisition of four companies.
- Conducted comprehensive source code analysis for hundreds of applications using the CAST Highlight tool, providing precise assessments of Cloud Readiness, Open-Source risks, Resiliency, and Technical Debt.

## Academic Projects

### University Hiring portal | *SpringBoot*

GitHub Link

- Built a hiring portal with role-based authorization, security, DAO and Hibernate annotations.
- Implemented two distinct roles: Student for applying to job postings and Alumni for posting job openings and referrals, providing differentiated functionalities for each role.
- Integrated AWS services, including EC2, S3, and RDS, for application deployment and data storage.

### WorkIt: Task-management application | *MERN*

GitHub Link

- Led a team of 4 to construct a full-stack productivity application, drawing inspiration from Notion.
- Created frontend user interface using Bootstrap, and ReactJS, resulting in an user-friendly application.
- Constructed backend infrastructure with NodeJS and ensured seamless database connectivity with MongoDB.

### Sound Pollution Detection System | *Internet of Things*

- Designed a sound pollution detection system using the ESP32 microchip and a microphone, resulting in a reliable and cost-effective solution.
- Integrated the ESP32 with AWS IoT Greengrass, leveraging cloud-based technology to enable seamless communication and data transfer.
- Configured AWS SNS to send real-time notifications when sound levels exceeded specified thresholds in different environments, resulting in efficient and timely alerts.