

Vennela Bandla

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EDUCATION

Northeastern University, Boston, MA

Master of Science in Information Systems -3.7/4.0

Expected May 2024

- **Courses:** Web Design and User Experience Engineering, Data Management and Database Design, Network Structures and Cloud Computing, Application Engineering Development

Symbiosis Institute of Technology, Pune, India

Bachelor of Technology in Electronics & Telecommunication - 8.1/10

Jul. 2020

- **Courses:** Data Structures and Algorithms, Computer Programming, Java

TECHNICAL SKILLS

- **Programming Languages:** Java, JavaScript, Python, C
- **Databases:** MySQL, MongoDB, PostgreSQL
- **Frameworks and Technologies:** ReactJs, NodeJs, ExpressJs, REST API, HTML5, CSS, Bootstrap
- **Cloud Platforms:** IBM cloud, AWS (EC2, RDS, S3, Route53, CloudWatch)
- **Other skills:** Infrastructure as a code with Terraform, Packer, Shell Scripting
- **Other tools and technologies:** GitLab, Docker, Postman, Visual Studio Code, Artifactory, JIRA, Confluence, Jenkins, DevOps, CI/CD

PROFESSIONAL EXPERIENCE

IBM India Private Limited, Bangalore, India

DevOps Engineer

Dec. 2020 - Jul. 2022

- Administered of DevOps tools like Jira, Jenkins, GitLab, JFrog Artifactory, Tuleap and Nexus. Also integrated each tool with others that reduced 20% of the manual work
- Wrote multiple Shell scripts and Jenkinsfiles to automate the CI/CD pipeline as per the customization required by the clients to reduce the human involvement
- Deployed containerized tools on to OpenShift cluster
- Managed LDAP and SAML authentications as part of user login into the tools

Ideabytes Software India Pvt. Ltd., Hyderabad, India

Intern

Jul. 2019 - Dec. 2019

- Made a device that is an IoT enabled cold room monitoring system. Developed a mobile application in Java to monitor the temperature and to control different components associated with the cold rooms with respect to temperature like compressor, defrosting, evaporator
- Monitored Milk silo tanks by an external device and integrated it with ESP8266 board which again is associated to WiFi module for data transfer
- Tracked Mushroom farms by associating sensors for measuring temperature, humidity, pressure and send the recorded values to the cloud and then display on a dashboard

ACADEMIC PROJECTS

AWS – Backend Infrastructure Project, Northeastern University

Jan. 2023 - Apr. 2023

- Designed and developed enterprise infrastructure on AWS using Cloud Formation, Github actions and AWS AMIs
- Infrastructure as a code set up VPC, load balancers, auto scaling, firewall, RDS & EC2 instances as well as Lambda functions in a Cloud formation template
- Provisioned CI/CD to host a backend web application as a SystemD service upon start of a EC2 instance

E-Commerce Database Management System, Northeastern University

Jan. 2023 - Apr. 2023

- Designed and maintained an e-commerce database that will help the company's Director of Supply Chain and Business Operations address issues and make strategic business decisions
- Stored customer information and tracked customer behaviour to measure customer satisfaction and make data-driven decisions to improve the customer experience

Playbook: Sports Management Web Application, Northeastern University

Sep. 2022 - Dec. 2022

- Developed the application from scratch using MERN (MongoDB, Express, React and NodeJS) stack
- Created two different roles User and Admin with respective permissions
- Established a platform where admins can add venues and users can host an event at a particular venue for other players to join

Computer Parts Recycling System, Northeastern University

Sep. 2022 - Dec. 2022

- Created a GUI using Java swing, MySQL and performed CRUD operations involving SQL joins, procedures, functions to regulate the mismanagement of used computer parts