

EDUCATION

Northeastern University, CA USA

Dec 2024

Master of Science in Computer Software Engineering, Specialization with IoT (3.7/4 GPA)

Visvesvaraya Technological University, Karnataka India

July 2019

Bachelor of Engineering in Computer Science (First Class Grade)

CERTIFICATIONS

AWS Solutions Architect- Associate - [Show Credentials](#) , AWS Certified AI Practitioner - [Show Credentials](#)

SKILLS

Programming: Java, Python, C, C++, PHP, JavaScript, HTML, CSS, React, Bash scripting, YAML**Database & Network:** MySQL, PostgreSQL, NoSQL, MariaDB, TCP/IP, UDP, MQTT, CoAP, OSI/ISO**Cloud & Infrastructure Services:** AWS, GCP, Kubernetes, Docker, Terraform Pulumi, Hashicorp, Bash Scripting, CI/CD

PROFESSIONAL EXPERIENCE

Software Engineer - Merck KGaA, Karnataka India

Oct 2020 - Oct 2021

- Designed and developed backend microservices using Java and Spring Boot, ensuring high performance and scalability for enterprise applications
- Led migration projects to AWS cloud, optimizing cloud architecture with services like EC2, S3, Lambda, and RDS for scalable and cost-efficient infrastructure
- Implemented monitoring and logging solutions using AWS CloudWatch and Elasticsearch, improving system visibility and up time by 20%, Integrated AWS S3 and AWS Lambda, reducing infrastructure overhead by 15%
- Designed and implemented CI/CD pipelines to automate deployments, increasing release frequency and reducing errors

Web Development Application Intern - Madiwala Infotech, Karnataka India

Sept 2018 - Jan 2019

- Collaborated with clients to translate data requirements into technical specifications, designing a secure full-stack web application with PHP, HTML, CSS and SQL for backend data management

LEADERSHIP EXPERIENCE

Teaching Assistant - Northeastern University, USA

Sept 2023 – Dec 2024

- Assisted 20+ students across San Jose, Boston, and Toronto campuses in IoT, DevOps, OOPS, and Networking, facilitating hands-on labs and assignments.

Program Assistant & Instructional Assistant - Northeastern University, USA

Jan 2024 – Dec 2024

- Promoted from Instructional Assistant to Program Assistant for effectively managing on-site classes and troubleshooting technical issues, collaborating with faculty, and all teaching assistants to ensure seamless operations across classrooms

RELEVANT PROJECTS

Two Tier IoT Edge Application with Cloud

[GitHub](#)

- Developed two-tier IoT edge infrastructure system to facilitate data acquisition and actuation processes
- Implemented integration and unit tests to verify that both the components met specified requirements, ensuring functionality and reliability across both applications by enabling real-time analysis
- Implemented application to communicate with the cloud server via MQTT (RabbitMQ) protocol using secure TLS protocol to receive telemetry messages for uploading data and facilitating data visualization
- Integrated telemetry data with cloud servers via MQTT protocol, enabling real-time monitoring and data validation

Cloud-native Java Spring boot REST-API with Pulumi, AWS & GCP

[GitHub](#)

- Developed a REST API for a dynamic assignment management system, efficiently handling CRUD operations with OAuth and storing data in MySQL, Deployed the application on AWS VPC with an automated CI/CD pipeline
- Created Machine Images (AMI) using Hashicorp for deploying instances, across multiple AWS regions to ensure high availability and fault tolerance, Integrated the Lambda function to upload submissions to GCP (Google Cloud Platform)
- Set up Route 53 for DNS, ensuring the application had a scalable and reliable domain Implemented load balancing and autoscaling to dynamically manage instances based on traffic, Added CloudWatch for application logs and performance

HONORS & AWARDS

Silicon Valley Student Award, Northeastern University – Cyber-Physical Systems (IoT), May 2025

- Recognized for leadership, teaching support, and contributions to cross-campus student success