

# ANAND S PANDEY

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## EDUCATION

**Northeastern University**, Boston, MA  
Masters of Science in Information Systems

Expected December 2025

**University of Mumbai**, Mumbai, Maharashtra, IN  
Bachelors of Science in Information Technology

May 2021

**Related Course Work:** Web Design & User Experience Engineering, Network Structure & Cloud Computing, Program Structure & Algorithms, Application Engineering & Development, Concept of OOPs, Data Management & Database Design

## WORK EXPERIENCE

**Software Engineer** | Wipro Ltd, Mumbai, IN

October 2021 - November 2023

Tech Stack: React, JavaScript, TypeScript, Node.js, Express, Python, C#, Azure, Jenkins, Docker, Kubernetes, Git

- Built dynamic, real-time user interfaces with **React** and integrated backend services for seamless performance.
- Developed and optimized **RESTful APIs** using **Python** and **C#**, improving data processing efficiency and enabling seamless communication between systems.
- Engineered over **10+** secure, role-based REST APIs, reducing manual operations by **73%** through automation and ensuring robust input validation and access control.
- Led orchestration and scaling of services using **K8s** in multi-cloud environments, boosting deployment speed by **40%**.
- Containerized application services using **Docker**, enabling microservices architecture that improved scalability and lowered infrastructure costs by **35%**.
- Collaborated with teams to investigate on root cause analysis for production issues, delivering **detailed RCA reports** that improved long-term system reliability.
- Spearheaded code reviews and branch strategy using **Git and GitHub**, cutting production issues significantly.

## TECHNICAL SKILLS

- Languages: Python, Java, C#, JavaScript, TypeScript, HTML, CSS
- Technologies: React, Node.js, Express.js, Spring Boot, AWS, Azure, Kubernetes, Terraform, CI/CD, Jenkins, Docker, Kafka, Elasticsearch, Kibana, Grafana, RabbitMQ, Linux, Datadog, Agile, Distributed Storage
- Database: SQL, MongoDB, MySQL, Oracle
- Machine Learning: TensorFlow, PyTorch, Scikit-Learn
- Networking Skills: TCP/IP, DNS, DHCP, VPN, LAN/WAN, Network Security, Routing & Switching, Subnetting
- Skills & Tools: Git/GitHub/Gitlab, Problem-Solving Skills, Cross-functional Collaboration, Communication Skills

## ACADEMIC PROJECT

**Web Application Infrastructure Setup** | AWS, Terraform, Git, CI/CD, Node.js, MySQL

April 2025

- Automated AWS infrastructure with Terraform (VPCs, subnets, RDS) across multi-AZ for high availability.
- Configured IAM roles, security groups, and CI/CD pipelines with GitHub Actions and integrated monitoring with CloudWatch.
- Built custom AMIs with Packer (SystemD) and deployed stateless app using Auto Scaling and Load Balancing.

**AI-Powered Anomaly Detection System** | Python, TensorFlow, Scikit-Learn, AWS S3, CloudWatch

December 2024

- Developed a machine learning model for detection using TensorFlow and Scikit-Learn, improving incident response time.
- Integrated the model with AWS CloudWatch to monitor system performance and detect deviations in real time.
- Automated data ingestion using AWS S3 and Lambda, reducing manual data processing by 50%.

**Library Management System** | Java, Spring Boot, RESTful APIs, MySQL, JDBC

July 2024

- Built backend system using Java, Spring Boot, and MySQL to manage library operations efficiently.
- Implemented user authentication with BCrypt and enforced role-based access control for data privacy.
- Optimized database queries with JDBC and added detailed logging using Log4j for easier debugging.