

Mangesh Raut

Philadelphia, PA, USA

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Portfolio

Summary

Software Engineer skilled in full-stack development (Java, Python, AngularJS) and cloud solutions (AWS, Docker), currently enhancing energy analytics tools at Customized Energy Solutions (40% efficiency gain). Previously honed expertise in network engineering (35% latency reduction at Harshwardhan Enterprises) and Java development (20% code optimization at loasiZ), alongside part-time roles managing databases at Aramark and Drexel University. Eager to leverage hands-on experience with scalable systems, CI/CD pipelines, and machine learning to drive innovation in fast-paced teams. Actively pursuing roles focused on emerging technologies to accelerate career growth.

Technical Skills

Languages: Java, Python, SQL, JavaScript

Frameworks: Spring Boot, AngularJS, TensorFlow, scikit-learn

Cloud/DevOps: AWS, Docker, Jenkins, Terraform

Databases: PostgreSQL, MongoDB, MySQL

Tools: Git, Jira, Tableau, Wireshark

Networking: Cisco, OSPF/BGP

Experience

Customized Energy Solutions

Philadelphia, PA

Software Engineer

Aug 2024–Present

Full-Stack Development: Built energy analytics dashboards using **Java Spring Boot** (backend) and **AngularJS** (frontend), reducing data rendering latency by 40% via **RESTful API** optimization

Cloud DevOps: Orchestrated **AWS Lambda/EC2** workflows with **Terraform IaC**, accelerating deployment by 35% through Dockerized **Jenkins CI/CD** pipelines

Machine Learning: Enhanced demand forecasting accuracy by 25% using **Python**-based LSTM models (**TensorFlow**) with feature engineering

loasiZ

Piscataway, NJ

Software Engineer

Jul 2023–Jul 2024

System Modernization: Refactored legacy Java monoliths into modular services using **Spring Framework**, cutting code redundancy by 20% (SOLID principles)

Distributed Systems: Resolved 50+ bugs in microservices architecture, boosting sprint efficiency by 15% via **JUnit/Mockito** test suites

Performance Optimization: Integrated **Redis caching** for inventory APIs, achieving 30% faster response times through query tuning

Aramark

Philadelphia, PA

Database Administrator (Part-Time & Internship)

Jun 2022–Jun 2023

AWS Automation: Developed **Python** scripts to manage event inventory systems on **AWS**, reducing manual errors by 25% for 200+ events

Data Migration: Transitioned 3+ legacy databases to **AWS RDS**, improving scalability for high-traffic event analytics

Drexel University

Database Administrator (Part-Time)

SQL & Compliance: Maintained **HIPAA-compliant MySQL** databases for 5K+ student records, ensuring 99.9% accuracy with constraint-driven validation

Reporting Tools: Streamlined data workflows using **Tableau** and **Excel**, cutting report generation time by 20% for administrative teams

Philadelphia, PA

Sep 2021–May 2022

Harshwardhan Enterprises

Network Engineer

Network Optimization: Deployed **Cisco ASR 9000** routers with **OSPF/BGP** protocols, slashing latency by 35% in enterprise WANs

Troubleshooting: Resolved 500+ connectivity issues via **Wireshark** analysis, achieving 90% SLA compliance for client networks

Scripting: Created **Python**-based monitoring tools, reducing manual diagnostics by 50%

Pune, India

Jun 2020–Jun 2021

Education

Drexel University

Master of Science in Computer Science, GPA: 3.3

Philadelphia, PA

Sep 2021–Jun 2023

Pune University

Bachelor of Engineering in Computer Engineering, GPA: 3.6

Pune, India

Jun 2017–Jun 2020

Projects

Angular, Flask, SQLite

Starlight Blogging Website

Jan 2023–Apr 2023

Built a blogging website with user authentication and post-management features. Attracted 100+ users within three months and enabled interactive community features.

Python, OpenCV, Machine Learning

Real-Time Face Emotion Recognition System

Jun 2019–Jun 2020

Planned a real-time emotion recognition model with 95% accuracy.

Arranged in retail stores and institutions, reducing incidents by 50%.

Java, Database Integration, Automation

PC Crime Detector

Jun 2016–Jun 2017

Implemented security automation, reducing breaches by 80%.

Deployed in institutions, decreasing security incidents by 50%.

Publications

International Journal of Future Generation Communication and Networking

Real-Time Face Emotion Recognition System

May 2020–Jun 2020

Published research on facial recognition algorithms and image processing.

Explored elastic bunch map graphing, PCA, and cascading techniques.

Certifications

Google - Prompt Design in Vertex AI Skill Badge, Digital Marketing, Online Marketing Fundamentals

IBM - Cybersecurity Fundamentals, Data Fundamentals (SQL/NoSQL), Explore Emerging Tech (AI), Fundamentals of Sustainability and Technology

Cisco - Networking Basics (OSPF/BGP), CCNP (Routing & Switching)

Microsoft - JavaScript Programming