Mangesh Raut

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Summary

Software Development Engineer (SDE) and Cloud Infrastructure Engineer skilled in full-stack development (Java, Python, AngularJS) and cloud-native solutions (AWS, Docker). Enhanced energy analytics tools at Customized Energy Solutions with a 40% efficiency gain. Optimized network latency by 35% at Harshwardhan Enterprises and improved code performance by 20% at IoasiZ. Strong background in scalable systems, CI/CD pipelines, and ML integration, with additional database experience from roles at Aramark and Drexel University. Seeking roles in emerging technologies to drive impact.

Skills and Technical Proficiencies

Languages: Java, Python, SQL, JavaScript

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

Cloud Platforms: AWS (EC2, Lambda, RDS), Docker, Terraform, Jenkins

Databases: MySQL, PostgreSQL, MongoDB

Tools: Git, Jira, Tableau, Wireshark

Networking: Cisco, OSPF, BGP

Experience

Customized Energy Solutions   **Philadelphia, PA**
Software Engineer   *Aug 2024–Jul 2025*

- Engineered energy analytics dashboards using Java Spring Boot and AngularJS, reducing rendering latency by 40%

- Automated AWS Lambda, EC2, and RDS deployments via Terraform and Jenkins CI/CD, improving build efficiency by 35%

- Constructed LSTM-based demand forecasting models in TensorFlow, increasing accuracy by 25%

IoasiZ   **Piscataway, NJ**
Software Engineer   *Jul 2023–Jul 2024*

- Refactored legacy Java monoliths into modular Spring services, cutting code redundancy by 20%

- Resolved 50+ microservices bugs using JUnit/Mockito, boosting sprint efficiency by 15%

- Integrated Redis caching for inventory APIs, achieving 30% faster response times

Aramark   **Philadelphia, PA**
Database Administrator (Part-Time & Internship)   *Jun 2022–Jun 2023*

- Implemented Python scripts to automate AWS inventory workflows, reducing manual errors by 25%

- Migrated 3+ legacy databases to AWS RDS, enhancing scalability for event analytics

Drexel University   **Philadelphia, PA**
Database Administrator (Part-Time)   *Sep 2021–May 2022*
- Maintained HIPAA-compliant MySQL databases for 5K+ student records with 99.9% accuracy

- Streamlined Tableau and Excel workflows to reduce reporting time by 20%

Harshwardhan Enterprises   **Pune, India**
Network Engineer   *Jun 2020–Jun 2021*
- Installed and configured Cisco ASR 9000 routers with OSPF/BGP, reducing WAN latency by 35%

- Diagnosed 500+ connectivity issues using Wireshark, maintaining 90% SLA compliance

- Designed Python-based monitoring tools, reducing manual diagnostics by 50%

Education

Drexel University   **Philadelphia, PA**
Master of Science in Computer Science, GPA: 3.3   *Sep 2021–Jun 2023*
Pune University   **Pune, India**
Bachelor of Engineering in Computer Engineering, GPA: 3.6   *Jun 2017–Jun 2020*

Projects

                                                                         Remote
Starlight Blogging Platform (Personal Project)   *Jan 2023–Apr 2023*
- Launched a blogging site with secure user authentication and post-management features

- Grew user base to 100+ within three months through community engagement tools

                                                                         Remote
Real-Time Emotion Detection System (Capstone)   *Jun 2019–Jun 2020*
- Programmed a facial emotion recognition system using OpenCV with 95% accuracy

- Implemented in retail environments to reduce incidents by 50%

                                                                         Remote
Security Automation Platform (Academic Project)   *Jun 2016–Jun 2017*
- Developed Java-based threat detection system with SQL reporting, reducing breach rates by 80%

- Applied in institutions, reducing unauthorized access by 50%

Publications

International Journal of Future Generation Communication and Networking   **Remote**
Real-Time Face Emotion Recognition System   *May 2020–Jun 2020*
- Authored a paper on facial recognition using PCA and cascade classifiers

Certifications

- Google: Prompt Design in Vertex AI Skill Badge

- Google: Digital Marketing, Online Marketing Fundamentals

- IBM: Cybersecurity Fundamentals, Data Fundamentals (SQL/NoSQL), AI, Sustainability

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

- Microsoft: JavaScript Programming