Mrunal Yogesh Patil

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SUMMARY

Growth mindset computer science graduate student with 1.5+ years of experience in Software Engineering and strong knowledge of data structures, algorithms, and object-oriented programming. Proficient in Java, Python, and Database Systems with an understanding of Distributed Systems and Computer Networking. Skilled at collaborating with team members in identifying and solving complex problems. Enjoy tackling challenges and learning techniques spanning full-stack development.

EDUCATION

Master of Science, Computer Science   **May 2024**
Indiana University-Bloomington, US   GPA: 4.0

Bachelor of Engineering, Computer Engineering   **Apr 2020**
University of Pune, India   GPA: 3.9

TECHNICAL SKILLS

Java | Python | Spring Boot | JavaScript | SQL | NoSQL | HTML | REST API | Jenkins CI/CD | AWS | Git | Docker | Kubernetes

WORK EXPERIENCE

Teaching Assistant (Graduate & Undergraduate), Indiana University-Bloomington, US   **Aug 2023 - Present**
- Courses: Programming Languages and Programming Languages Principles.
- Collaborating on course material development and providing prompt, in-depth feedback to 50 students, enhancing their understanding of functional programming principles using the Racket programming language.

Jr. Software Engineer, Cognizant Technology Solutions, India   **Nov 2020 - Jun 2022**
- Implemented and maintained payment gateway with Java Spring Boot and ANSI SQL while adhering to architecture guidelines and supporting Agile SDLC.
- Analyzed and crafted software solutions for implementing two-factor authentication via Email OTP which enhanced the security framework for payment transactions.
- Identified and resolved more than 20 bugs from the front-end codebase using Angular.
- Collaborated with team members to create a test suite using JUnit and Mockito for achieving 100% code coverage.
- Generated design documents, managed project tasks with Jira, reviewed code using SonarQube and fixed code smells to ensure compliance with best practices and project requirements.

PROJECTS

UniMatch: University Recommendation System   **Feb 2023 - May 2023**
- Led data preprocessing for student profile data scrapped from multiple online sources, improving data quality by 60%.
- Implemented KNN algorithm to develop a personalized university recommendation system aiming to simplify university shortlisting for students by using Flask, scikit-learn, pandas, and NumPy, achieving 66% accuracy.

CI/CD Pipeline using AWS for Community Connect   **Feb 2023 - May 2023**
- Automated deployment of code releases from GitHub by building CI/CD pipeline with AWS CodeBuild, CodeDeploy, CodePipeline and EC2 for ensuring reliability, reducing deployment efforts, time, and costs.
- Built a neighborhood bulletin board (web application) using Java and AWS Lambda, RDS and SNS for enabling important communication between neighbors, including the ability to trigger email notifications for high-priority posts.

Google Play Store Data Design   **Dec 2022**
- Modeled Google Play Store data and demonstrated different user scenarios with MySQL and Neo4j queries.

Return Order Management   **May 2021**
- Led a team of four in developing Maven Spring Boot microservices, incorporating Hibernate for database interaction, REST APIs with JSON for communication, and service discovery to optimize return order processing.
- Orchestrated deployment of microservices on AWS Elastic Beanstalk, resulting in 30% reduction in processing time.

CERTIFICATIONS

Google Crash Course on Python | Google IT automation with Python | Google Analytics for Beginners | Udemy Advanced Java