Mrunal Yogesh Patil

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PROFESSIONAL SUMMARY

Motivated and detail-oriented computer science student with a strong foundation in programming logic and object-oriented programming. Proficient in Java, Python, and database management systems such as MySQL and NoSQL. Passionate about new technologies and eager to learn and apply new skills. Adept at collaborating with others to identify and solve complex problems.

EDUCATION

Master of Science, Computer Science **May'24**
Indiana University, Bloomington, IN GPA: 4.0

Bachelor of Engineering, Computer Engineering **Apr'20**
University of Pune, India GPA: 3.9

TECHNICAL SKILLS

C++, Java, Python, JavaScript, Racket, MySQL, NoSQL, SpringBoot, REST APIs, Jenkins CI/CD, Git, Docker, Kubernetes

WORK EXPERIENCE

Teaching Assistant, Indiana University Bloomington, USA Aug'23 to Present

- Course: CSCI-C 311: Programming Language, CSCI-B521: Programming Language Principles
- Providing prompt and in-depth feedback to students, helping students to solidify understanding of core concepts, collaborating with other instructors to develop course materials for functional programming using Racket programming language.

Jr. Software Engineer, Cognizant Technology Solutions, India Nov'20 to Jun'22

- Implemented and maintained Java web-based interfaces as well as applications for payment gateway services using SpringBoot adopting Fiserv Architecture guidelines by supporting Agile SDLC.
- Analyzed and developed software solutions to set-up two factor authentication using Email OTP for secured payment transactions.
- Collaborated with team members to create a test suite using JUnit and Mockito which helped to achieve 100% code coverage.
- Generated design documents and executed code reviews to ensure adherence to best practices and requirements.

PROJECTS

UniMatch: University Recommendation System Feb'23 to May'23

- Performed data cleaning and preprocessing on the student profile data collected by team members from diverse sources.
- Implemented KNN algorithm to develop a personalized university recommendation system using python programming Scikit-learn, pandas and numpy, achieving 66% accuracy.

CI/CD Pipeline using AWS for CommunityConnect Feb'23 to May'23

- Automated deployment of new 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 cloud-based communication platform for neighborhoods, utilizing AWS services for facilitating seamless communication between neighbors, including the ability to trigger email notifications for high-priority posts.

Return Order Management May'21

- Created microservices using Java, SpringBoot and REST APIs and deployed them independently in AWS – Elastic Beanstalk.
- Led a group of 4 and delegated responsibilities to team members to automate the return order procedure of a supply chain.

Bank Data Classification Aug'19 to Apr'20

- Pre-processed the training data and applied C4.5 algorithm for Customer Acquisition and Random Forest Classification algorithm for Customer Retention and Loan Prediction to achieve an accuracy of 87%.
- Led a team of 4 to develop a classification system with above technologies using Python-Django framework.

Google Play Store Data Design Dec'22

- Modeled Google Play Store's data into MySQL tables and Neo4j nodes and demonstrated the usage of data by multiple users under different scenarios using MySQL and Neo4j queries.