SHILPA PALADUGU

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SUMMARY

Software Engineer with 1.8 years of Backend Development experience and System Optimization expertise. Masters in Information Technology.Proficient in Python, Java, and C, with expertise in RESTful APIs, microservices, spring boot, cloud services, and database management. Proven ability to troubleshoot, document and collaborate with cross functional teams.

PROFESSIONAL EXPERIENCE

Backend Developer, Wipro | *Bengaluru, India* **Oct '21 - Aug '23**

- Engineered scalable backend solutions using Java, Spring Boot & Python, improving system efficiency by 30%.
- Applied OOP principles and design patterns to improve system modularity and reusability.
- Integrated and tested components across environments, reducing system downtime by 25%.
- Troubleshoot production issues and debugged mission-critical apps, improving uptime by 40%.
- Collaborated with cross-functional teams and stakeholders to align functionality with business needs.
- Authored system design and API documentation to support seamless integration and maintenance.
- Explored CI/CD and automation tools to reduce manual testing and deployment overhead.

PROJECTS

Cloud Strategizing for Small Business| *Python, React.js, Azure SDk* ***Aug* '24**

- Designed Azure infrastructure plans based on compute load, network needs, and cost constraints, selecting optimal VM sizes, storage tiers, and region placements.
- Wrote and executed Azure Bicep templates and CLI scripts to deploy virtual networks, VMs, and backup configurations with minimal manual intervention
- Set up Azure Monitor, Log Analytics, and Security Center to track system metrics, generate alerts, and enforce baseline security policies.

Intelligent Approach to Credit card Fraud Detection using LGBM | *Next.js, Python, Light GBM* **Jan '21**

- Preprocessed credit card transaction data by handling missing values, encoding categorical features, and applying SMOTE to balance class distribution.
- Built and optimized a LightGBM model using grid search and early stopping to detect fraudulent transactions with improved precision and recall.
- Evaluated model performance using stratified k-fold cross-validation, precision, recall, F1-score, and ROC-AUC.
- Visualized feature importance and fraud detection patterns using matplotlib and seaborn in Jupyter Notebook.

TECHNICAL SKILLS

Programming: Python, Java, HTML, CSS

Database: PostgreSQL, MySQL

Libraries/Framework/Tools: React.js, Spring Boot, JIRA, Postman

Cloud Technologies: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)

Development Practices: Back-end development, CI/CD, Automation, Agile, SDLC, and Code Reviews

EDUCATION

Masters in Information Technology - Northern Arizona University | 3.6/4.0 **Aug '23 - Dec '24**
Relevant Coursework: Web Technology, Networking and Admin System, Information Security, Capstone Project
Bachelors in Computer Science & Information Technology - Madanapalle Institute of Technology & Science | 8.06/10.00 **Jun '17 - Jun '21**
Relevant Coursework: Cloud Computing, Distributed Systems, Operating Systems, Database Management