ANIRUTH RAVULA

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EXPERIENCE

Full Stack Java Developer   Feb 2024 - Present
Xpanse, Bellevue, WA (Remote)

- Increased user engagement by 15% by developing responsive, user-friendly web application to define and manage business rules utilizing HTML, TypeScript, CSS, and Angular, ensuring optimal performance across multiple platforms.
- Developed and implemented RESTful APIs using Java, Spring Boot, and Spring Data JPA, employing a microservices architecture, improving scalability and reducing maintenance efforts by 25%.
- Implemented Spring Security for robust authentication and authorization in Java-based web applications.
- Led the migration of complex business rules from InRule application to a custom web application based on Drools, achieving a 40% reduction in licensing costs.
- Leveraged AWS services such as S3, Code Pipeline, Code Build, and Elastic Beanstalk to optimize continuous integration, deployment, and hosting workflows.
- Deployed Docker containers to standardize application deployment across diverse environments, improving operational reliability and consistency.

Software Engineer Co-op   Aug 2023 - Dec 2023
KLH Engineers, Fort Thomas, KY

- Applied advanced time series forecasting techniques using SARIMAX, Prophet, XGBoost, LGBM, NBEATS, LSTMs, and Neural Prophet to tackle complex forecasting challenges.
- Proficient in natural language processing, specializing in text classification with deep learning models such as LSTMs, GRUs, and Transformers. Integrated these models with business application through Flask RESTful APIs, leading to a 70% reduction in manual workload.
- Utilized Prodigy AI to improve data collection and labeling efficiency by 40%, resulting in a 50% faster annotation process and ensuring 99% data accuracy, contributing to high-quality datasets for robust model training and analysis.
- Worked on the development of a Mask R-CNN model for 2D object detection, significantly enhancing the organization's capabilities in computer vision applications.

Full Stack Java Developer   Nov 2020 - Jul 2022
Tata Consultancy Services / Citibanamex, Remote

- Built and maintained Java-based dashboards using Spring Boot to onboard KPIs, boosting operational efficiency by 25% and enhancing the front-end with HTML, JavaScript, and CSS.
- Streamlined data interactions between Spring Boot and MongoDB via Spring Data MongoDB, ensuring seamless data access and optimizing operational efficiency.
- Optimized Spring Boot application integration with external systems using their RESTful APIs, reducing troubleshooting time for the monitoring team by 80%.
- Automated server troubleshooting to handle unusual activity by integrating AppDynamics and Splunk data via REST APIs, reducing manual troubleshooting time by 70%.
- Collaborated with cross-functional teams to gather requirements, provide technical guidance, and ensure timely delivery of project deliverables, resulting in a 20% improvement in delivery timelines and project success rates.

EDUCATION

Master of Engineering, Artificial Intelligence   Aug 2022 - Dec 2023
University of Cincinnati, Cincinnati, OH - GPA: 3.9/4.0

Bachelor of Technology, Electronics and Communication Engineering   Aug 2016 - Oct 2020
Vardhaman College of Engineering, Hyderabad - GPA: 9.2/10.0

SKILLS

Programming Languages: Java, Python, C Programming, HTML, JavaScript, TypeScript, SQL, Shell Scripting, MATLAB

Frameworks/Methodologies: Spring Boot, Spring (Core, MVC), Spring Security, Flask, JDBC, Angular, Hibernate, Spring Data MongoDB, Spring Data JPA, Agile/Scrum, SDLC, Drools

Databases: NoSQL (MongoDB), Relational Databases (PostgreSQL, MySQL)

Development Tools: Git, BitBucket, GitHub, Jira, Maven, Prodigy AI, JUnit, Splunk, App Dynamics, Postman, Swagger

Cloud Technologies: Docker, Amazon Web Services (EC2, S3, Code Pipeline, Code Build, Elastic Beanstalk, Lambda), GCP

Libraries: Statsmodels, PyTorch, Scikit-Learn, TensorFlow, jQuery, Bootstrap, SQL Alchemy

PROJECTS

- Achieved 98% accuracy in digit classification on the MNIST dataset using Multilayer Perceptron and ResNet.
- Developed image classification models (LeNet, AlexNet, VGG-16, and ResNet) on the CIFAR-10 dataset, attaining 91% accuracy.
- Performed sentiment analysis on IMDB movie reviews using RNN with LSTM cells.
- Implemented a Generative Adversarial Network (GAN) to generate MNIST handwritten digits.