

LAVANYA MUKKAPATI

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WORK EXPERIENCE

Graduate Assistant (Grader)

Feb 2024 – Present

University at Albany, SUNY, Albany, New York

- Graded assignments and projects for the “**Introduction to Computer Science**” course, with a primary focus on java programming.
- Evaluated student assignments for designated courses, ensuring fairness and accuracy in grading.
- Assisted students with inquiries regarding their grades, offering clear explanations and guidance; directed unresolved issues to appropriate personnel.
- Collaborated with course instructors and teaching assistants to stay informed about current course content and curriculum changes.

Associate Software Professional Engineer

DXC Technologies, Hyderabad, India,

June 2022 – Dec 2023

- Delivered customized solutions for five major clients (OKQ8, KF, SKF, XEROX, and CS01), ensuring client satisfaction and operational excellence. Monitored system **LPARS** and batch jobs, proactively addressing system alerts and resolving critical issues.
- Monitored system **LPARS** and batch jobs, resolving critical issues promptly and proactively addressing system alerts. Utilized tools like Omnibus, HPSM, ServiceNow, and Emulator Quick3270 for 24/7 system support.
- Executed weekly IPLs (Initial Program Loads) and performed abnormal job recovery to maintain system integrity. Optimized batch processing workflows by editing JCL scripts, reducing processing errors by 20%.

PROJECT EXPERIENCE

Dog Pawsonality Web Application

Technologies: **ReactJS, Spring Boot, AWS EC2, AWS RDS, SQL.**

- Developed a user-centric web application analyzing dog behavior and traits. Designed an intuitive front-end with ReactJS and integrated it with a Spring Boot backend.
- Deployed on AWS EC2 and RDS, ensuring scalability and reliability for seamless user interactions. Managed SQL databases for efficient user data storage and retrieval.

Android-Based Wi-Fi & Cellular Network Resource Allocation

Technologies: Android SDK, Java, WIFI Manager API, Telephony API, QuantumGIS, Python, Matplotlib

- Analyzed 300+ WiFi access points and 200+ cellular network IDs to identify trends in 2G-5G technologies. Created geographic heatmaps and visualizations for signal strength using QuantumGIS. Improved energy efficiency by optimizing RRC state machine mechanisms.

E-Commerce Platform for Online Retail

Technologies: ReactJS, Node.js, MongoDB, AWS S3, AWS EC2, Stripe API

- Engineered a robust and scalable eCommerce platform supporting secure user authentication, a dynamic shopping cart system, and seamless payment gateway integration.
- Achieved significant performance improvements by optimizing application workflows, resulting in 25% faster page load times.

Average Fuel Consumption Prediction in Heavy Vehicles

Technologies: Python, Scikit-learn, TensorFlow

- Implemented an **Artificial Neural Network (ANN)** model to predict fuel consumption using a dataset with seven input variables. Achieved a high level of accuracy through data preprocessing and feature engineering.
- Performed data preprocessing and feature engineering to enhance model accuracy and reliability. Utilized TensorFlow and **Scikit-learn** libraries for model building and evaluation.

RELEVANT SKILLS

Technical Skills: Java, Python, JavaScript, C++, SQL, ReactJS, Node.js, Express.js, RESTful APIs, Spring Boot, MongoDB, AWS(EC2,S3,Lambda,RDS),HPSM, ServiceNow, HTML, CSS, JCL, MySQL, TensorFlow,

Certifications: Programming for Python (Coursera), Python Pro Bootcamp (Udemy), Full Stack Development

EDUCATION

Master of Science, Computer Science, University at SUNY Albany, Albany, New York, USA. (3.1 GPA)

Bachelor of Technology, Computer Science and Engineering at BRECW, Hyderabad, India. (4.0 GPA)