hawal Modi

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https://dhawal-modi.github.io/

Education

University of California - Merced

Expected May 2025

Masters of Science in Electrical Engineering & Computer Science (GPA: 3.85 / 4.00)

Merced, California, US

• Relevant Coursework: Deep Learning, Reinforcement Learning, Computer Architecture & Design, Signal Processing for IoT Devices

Rajiv Gandhi Proudyogiki Vishwavidyalaya

Jul 2016 - Jun 2020

Bachelors of Engineering in Electronics & Communications Engineering (GPA: 3.27 / 4.00)

Bhopal, Madhya Pradesh, India

• Relevant Coursework: Computer System Organization, Operating Systems, Microprocessor & Microcontrollers, Wireless Communications

Experience

Tata Consultancy Services Limited

Nov 2020 - Jul 2023

Systems Engineer

Bangalore, Karnataka, India

- Implemented and streamlined validation routines for Outward Direct Debits and Credit Transfer payment channels, streamlining interface development as per FPS and HKICL specifications. This enabled high-efficiency processing, handling up to 100,000 transactions per minute.
- Guided design discussions with clients and users on Inward/Outward Direct Debit modules, crafting specifications and design documents for developers and module testers.
- Completed the integration of Spring REST API Client with external services, enhancing real-time bill payment processing. Led the creation of microservices architecture for rapid API prototyping, ensuring flawless delivery to System Integration Testing and production environments.
- Led a cross-functional team of 3 SDETs in implementing a Spring Boot API testing pipeline across 3 testing regions, resulting in a 20% increase in code delivery velocity.
- Designed and created an automated testing framework for 15 user stories and application flows using Jbehave BDD Framework, significantly improving regression testing efficiency.
- Optimized Oracle SQL database queries, reducing Direct Debit and Credit Transfer Payment file upload times by 15% and enhancing overall application performance.
- Adhered to required SLAs by promptly integrating Change Requests into Spring API client within a 48-hour timeframe.

Eminere Tech Solutions

Jul 2018 - Jan 2020

Co-Founder & Developer

Bhopal, Madhya Pradesh, India

- Led a team of 5 developers in developing a Computer Vision-based Road Traffic Control System utilizing Windows MFC, C/C++, and OpenCV.
- Developed a real-time Vehicle Recognition using Haar Cascade Algorithm achieving an 80% accuracy.

Projects

Dynamic Traffic Management | C++, OpenCV, Arduino

- Designed a Dynamic Traffic Management system utilizing Windows MFC, C/C++, and OpenCV
- Implemented a Real-Time Vehicle Recognition system using Haar Cascade Algorithm in OpenCV achieving an 80% accuracy and integrated with traffic light controller logic.

Binary Classification with a Bank Churn Dataset | Python, Scikit, Seaborn, Matplotlib, Jupyter Notebooks

- Built a Binary Classifier to predict churn using XGBoost giving an ROC-AUC percentage score of 88.5%.
- Created data visualizations for the training dataset using Python and Seaborn library uncovering patterns in the dataset.

Technical Skills

Languages: Python, Java, C++

Technologies: Django, Flask, Spring Boot, PyTorch, Oracle SQL, IBM Db2, Shell Scripting, CUDA, Matlab, LTEX