

DARRYL VAS PRABHU

darrylvp@outlook.com | (716) 936-4735 | www.linkedin.com/in/darryl-vas-prabhu/ | <https://darrylvasprabhu.me/>

EDUCATION

Master of Science: Computer Science and Engineering, University at Buffalo, New York, USA

Dec 2023

Bachelor of Engineering: Electronics and Communication, Visvesvaraya Technological University, Udipi, India

May 2017

PROFESSIONAL EXPERIENCE

Technical Support Engineer 2

Aug 2019 - Jun 2022

Dell Technologies, Bengaluru, India

- Conducted Root Cause Analysis on Storage vMotion latency affecting 90% of enterprise customers; engineered solution with escalation team, reducing related service requests by 85%.
- Led mentorship program for junior engineers on Network performance optimization, improving team efficiency by 25%.
- Authored technical product Knowledge Base articles, decreasing time-to-resolution by 20%.
- Earned multiple Dell Inspire awards for consistent customer satisfaction and technical excellence.

Technical Support Engineer 1

Jul 2017 - Jul 2019

Dell Technologies, Bengaluru, India

- Leveraged Regex tools (grep, awk, sed) and Python scripts to analyze logs, enabling swift issue resolution within 2-4 days.
- Spearheaded cross-functional collaboration with VMware, Linux, Cisco, and Oracle teams to develop workarounds for business impact problems within Service Level Agreements (SLAs), rebuilding trust with key stakeholders.

PROJECTS

Sports Performance Pro Web Application: Python | HTML | CSS | JavaScript | Flask | MySQL | AWS

- Engineered a responsive workout tracking web application for coaches and athletes.
- Implemented asynchronous data handling using Fetch API and AJAX to communicate with Flask backend, optimizing data retrieval from MySQL database.
- Led iterative development process, incorporating client feedback, and managing GitHub Issues/Enhancement requests, ensuring robust user experience.
- Successfully deployed and hosted the application on AWS EC2 instance, delivering a scalable solution to the client.

Info-Extractor: Google Gemini API | Streamlit | Python

- Developed a web application that extracts information from images and generates responses based on input prompts.
- Integrated Google's latest large language model (google-pro-vision API) for generation inference.
- User interface is using Streamlit for seamless user interaction.

Retrieval Augmented Generation (RAG): PyTorch | HuggingFace | Faiss | Python

- Designed and implemented a command-line AI application for context-based query answering from PDF files.
- Utilized sentence transformer (all-mpnet-base-v2), Mistral AI's Mistral-7b-Instruct-v0.2, and Meta's Faiss search index.
- Customized Application to answer questions from multiple PDF files.

Multi-Client Transmission Control Protocol Chat application: C

- Developed client Server multi-chat cli application with four clients and single server.
- Implemented user authentication, individual messaging, message blocking, and broadcasting features.

Deep learning & machine learning: Scikit-learn | Pandas | NumPy | Seaborn | Matplotlib

- Experimentation with machine learning algorithms (Linear Regression, Logistic Regression, Naive Bayes, Hidden Markov Model, Random Forest) on Kaggle datasets.
- Visualized model outputs with Seaborn/Matplotlib and documented the reports in Latex using Overleaf.

TECHNICAL SKILLS

Languages: Python, JavaScript, C, C++

Frameworks/Tools: PyTorch, HuggingFace Transformers, LangChain, NumPy, Pandas, Scikit-learn, Matplotlib, Wireshark, Flask, HTML, CSS, jQuery, AJAX, SQLAlchemy, DataTables, Postman, MySQL, PostgreSQL, MongoDB, Streamlit, Linux, Git, Azure

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals | Azure Fundamentals
- Oracle Certified: OCI Generative AI Professional
- Intel Certified Developer: MLOps Professional
- MongoDB Associate Developer