DARRYL VAS PRABHU

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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, *Udupi, India*   *May 2017*

PROFESSIONAL EXPERIENCE

Enterprise Storage Analyst 2   *Aug 2019 - Jun 2022*

Dell Technologies, *Bengaluru, India*

- Conducted Root Cause Analysis on Storage vMotion latency/outages affecting 90% of enterprise customers; engineered solution with escalation team, reducing related service requests by 85%.
- Led mentorship program for junior engineers on best practices/performance optimization, improving team efficiency by 25%.
- Authored technical product Knowledge Base articles/documentation, decreasing time-to-resolution by 20%.
- Received [Dell Inspire awards](#) for 99% positive customer experience, directly influencing customer infrastructure investments.

Enterprise Storage Analyst   *Jul 2017 - Jul 2019*

Dell Technologies, *Bengaluru, India*

- Automated log analysis using Regex tools (grep, awk, sed) and Python scripts, enabling issue resolution within 24-48 hours.
- 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.
- Directed on-site engineers during the deployment of data center storage-virtualization solutions.

PROJECTS

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

- Engineered a multi-dashboard workout tracker for universities, serving coaches and athletes, enhancing performance management for 100+ users.
- Implemented asynchronous data handling using Fetch API and AJAX, reducing data retrieval from MySQL database by 30%.
- Led iterative software development process with client feedback, peer code review, testing and managing 50+ GitHub Issues/Enhancement requests, thus resulting in 95% positive user experience.
- Deployed and hosted the application on AWS EC2 instance, delivering a scalable solution to the client.

Retrieval Augmented Generation (RAG) chatbot: PyTorch | LLM | HuggingFace | Faiss | Python | NLP 🔗

- Designed and implemented context-based question-answering system incorporating sentence transformer (all-mpnet-base-v2), Mistral AI's Mistral-7b-Instruct-v0.2, and Meta's Faiss search index.
- Customized PDF processing pipeline, enabling multi-document model understanding of 1000+ pages using model quantization.

Info-Extractor: **Google Gemini API | Generative AI | Streamlit | Python** 🔗

- Developed a web application that extracts information from uploaded images and generates responses based on input prompts.
- Integrated Google's language model (gemini-1.5-flash) with 1-million-token context window, designed to be fast and efficient.
- Coded interface using Streamlit, and deployed application on Streamlit Community Cloud cutting development time by 50%.

Multi-Client Transmission Control Protocol (TCP) Chat application: C | Debugging | Socket programming | TCP/IP 🔗

- Developed Client-Server multi-chat CLI application with 4 clients and 1 server using socket programming.
- Implemented user authentication, individual messaging, message blocking, and broadcasting features.

SKILLS

Programming Languages:	Python	JavaScript	C	C++
Databases:	MongoDB	PostgreSQL	MySQL
Frameworks/Packages:	PyTorch	HuggingFace	LangChain	NumPy	Pandas	Scikit-learn	Matplotlib	Streamlit	Flask
Tools/Technologies:	Git	Linux	Wireshark	SCSI	RESTful API	Postman	Packet capture	SAN	SCSI	Cloud

CERTIFICATIONS

- **Microsoft Certified: [Azure AI Fundamentals](#) | [Azure Fundamentals](#)**
- **Oracle Certified: [OCI Generative AI Professional](#)**
- **Intel Certified Developer: [MLOps Professional](#)**
- **MongoDB Certified: [Associate Developer](#)**
- **Dell Technologies: [Associate - Networking Version 1.0](#)**
- **Dell Technologies: [Associate - Information Storage and Management Version 3.0](#)**