Darryl Vas Prabhu

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EDUCATION

University at Buffalo   *New York, USA*
Master of Science: Computer Science and Engineering   *Aug 2022 - Dec 2023*
Visvesvaraya Technological University   *Udupi, India*
Bachelor of Engineering: Electronics and Communication   *Aug 2013 - May 2017*

PROFESSIONAL EXPERIENCE

Dell Technologies   *Bengaluru, India*
Enterprise Storage Analyst 2   *Aug 2019 - Jun 2022*

- Conducted Root Cause Analysis on Storage 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 performance tuning and best practices, 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*

- Automated log analysis and diagnostics using Regex tools and Python scripts, enabling problem resolution within 24-48 hours.
- Spearheaded cross-functional collaboration with VMware, Linux, Cisco, and Oracle teams troubleshooting SCSI latency and disaster recovery incidents within Service Level Agreements (SLAs), rebuilding trust with key stakeholders.
- Directed on-site engineers during the deployment of data center storage information systems.

PROJECTS

Retrieval Augmented Generation (RAG) chatbot: PyTorch | LLM | HuggingFace | Faiss | Python | **NLP [Link]**

- 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 [Link]**

- 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%.

Sports Performance Pro Web Application: Python | HTML | CSS | JavaScript | jQuery| HTTP | Flask | MySQL | AWS [Link]

- Engineered a multi-dashboard workout tracker software for universities, serving coaches and athletes, enhancing performance management for 100+ users.
- Employed 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.

Multi-Client Transmission Control Protocol Chat application: C | Debugging | Socket programming | TCP/IP [Link]

- 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 (NoSQL non-relation database)	PostgreSQL	MySQL (SQL relational database)
Frameworks/Packages:	PyTorch	LangChain	NumPy	Pandas	Scikit-learn	Express	ReactJS	Streamlit	Flask
Tools/Technologies:	Azure	Cloud	Artificial Intelligence	LLM	Copilot	Docker	Jenkins	Wireshark	Git	Linux/Unix	REST API	Data Structures	Algorithms	OOPS	Research	Debugging	NodeJS

CERTIFICATIONS

- **Microsoft: Azure AI Fundamentals | Azure Fundamentals**
- **MongoDB: Associate Developer**
- **GitHub : GitHub Copilot**
- **Oracle: OCI Generative AI Professional**