# Darryl Vas Prabhu

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## EDUCATION

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

## PROFESSIONAL EXPERIENCE

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

**Dell Technologies,** *Bengaluru, India*                                    *Jul 2017 - Jul 2019*
**Enterprise Storage Analyst**
- Automated log analysis using Regex tools (grep, awk, sed) and Python scripts, enabling problem resolution within 24-48 hours.
- Spearheaded cross-functional collaboration with VMware, Linux, Cisco, and Oracle teams to develop workarounds on 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-virtualization solutions.

## PROJECTS

**Sports Performance Pro Web Application: Python | HTML | CSS | JavaScript | JSON | Figma | Flask | MySQL | AWS [Link]**
- Engineered a multi-dashboard workout tracker 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.

**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%.

**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

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|---|---|
| **Programming Languages:** | Python | JavaScript | C | C++ |
| **Databases:** | MongoDB ( NoSQL) | PostgreSQL | MySQL ( SQL ) |
| **Frameworks/Packages:** | PyTorch | LangChain | NumPy | Pandas | Scikit-learn | Matplotlib | Streamlit | Flask |
| **Tools/Technologies:** | Git | Linux/Unix | NLP | Wireshark | RESTful API | Postman | Cloud | Deep Learning | SCSI | Algorithms | LLM | RAG | HuggingFace | Artificial Intelligence | Vector Index | Research |

## CERTIFICATIONS

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