Prakash Aryan

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Education

Master of Engineering in Software Systems

2023-Present

Birla Institute of Technology and Science, Dubai, UAE

Bachelor of Technology in Computer Engineering

2019-2023

Poornima University, Jaipur, India Specialization in Artificial Intelligence

Professional Experience

Cross Department Funded Research Project Intern

Sep 2023–Present

BITS Pilani Dubai Campus, Dubai, UAE

- Utilized Unity for simulating robot behaviors and testing various scenarios.
- Built VR and MR apps using Unity and tested simulations in MetQuest 3 headset.

Unity Developer Intern

Jun 2024–Aug 2024

Sparkslab Technology, Dubai, UAE

- Created Face MoCap system using Python, Computer Vision, and Mediapipe for Unity integration.
- Implemented AI Avatar Chatbot with LLMs and Unity, featuring RPM avatars.
- Developed Arabic text-to-speech chatbot using LLMs, ElevenLabs API, and Unity.

Software Developer

Apr 2024–Jul 2024

Al Ghwasa Technical Equipment Trading LLC, Dubai, UAE

- Built Python-based cost estimation tool to automate sales pipeline and rectify human-made errors in calculations.
- Implemented email parsing functionality for data extraction and processing.
- Developed employee performance tracking system to monitor and analyze productivity metrics.

Teaching Assistant (Lab)

Sep 2023–Jun 2024

BITS Pilani Dubai Campus, Dubai, UAE

- Provided guidance and support to undergraduate students in understanding computer architecture concepts.
- Taught in additional labs such as Computer Networks, Data Structures and Algorithms (DSA), and Database Systems.

Vice President, Linux Users Group

Aug 2023-Jun 2024

BITS Pilani Dubai Campus, Dubai, UAE

• Organized and conducted two workshops aimed at educating undergraduate students about Linux and open-source software, fostering their technical skills and knowledge.

• Provided assistance and support to PhD scholars in leveraging Linux and open-source tools for their research projects.

Data Engineer Intern

Apr 2022-May 2023

Biztech Analytics, New Delhi, India

- Designed and developed ETL (Extract, Transform, Load) pipelines for diverse client projects.
- Used Apache Spark for scalable and high-performance data processing.
- Utilized Apache Airflow for workflow orchestration and scheduling of ETL tasks.

Software Development Intern

May 2021–Jul 2021

Madehome Developers, Remote

- Developed backend functionalities for a web application using Python and Flask framework.
- Implemented a form to handle user requests efficiently.
- Connected the application to a database for storing user requests securely.

Skills

Programming Languages: C/C++, C# (WPF), Python, JavaScript, TypeScript

Web Technologies: React, Next.js, Node.js

Machine Learning & AI: Machine Learning, Deep Learning, Generative AI, Stable Diffusion, Large Language Models, Natural Language Processing, Computer Vision

Frameworks & Libraries: PyTorch, llama.cpp, GGUF, QLoRA

Extended Reality: XR and Unity

Databases: SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Redis), Vector Database (Chroma DB)

DevOps & Tools: Docker, Git, GitHub

Operating Systems: Linux (Ubuntu and Arch Linux)

Robotics: Robot Operating System (ROS)

Projects

- 1. Indian Penal Code Recognition Using Multiclass Classification Algorithms
- 2. Machine Learning algorithms to predict liver cirrhosis and its stage
- 3. LegalMind: Legal Advisory with Large Language Models
- 4. MediXAI: AI-Based Medication Exploration
- 5. Viewaze: Deep Learning System for Eye Tracking
- 6. XR Robotics Simulation in Metaquest3 using Unity and ROS2
- 7. Building Cloud Storage: QEMU/KVM, TrueNAS, and Nextcloud Integration

Languages

English (Fluent), Hindi (Native)

Interests

Reading, Cooking, Hiking, Star Wars, Puzzles and Legos, Geocaching