Anchit Mulye

Software Engineer

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EXPERIENCE

Data Scientist
Mirafra 📅 Sep 2024 – Present

- Developed an automated testing framework for ONNX models tailored to the AMD AI Engine, streamlining model validation and enhancing the engine's performance and reliability.

Deputy Manager – Software Developer
Jio 📅 Jan 2022 – Sep 2024

- Spearheaded the design and deployment of an AI Noise Suppression system in collaboration with Nvidia, significantly enhancing audio quality for JioMatrix.
- Developed a robust media engine for the JioMeet platform using Google WebRTC, enabling seamless cross-platform communication on Linux and Android.
- Automated the CI/CD pipeline for server deployments, achieving an 80% efficiency boost and reducing human errors.
- Built a custom load-balancing library for all microservices and implemented monitoring solutions using Zookeeper and Grafana, ensuring high performance and reliability.
- Designed and developed a SIP gateway for JioMeet Enterprise, enabling compatibility with multiple video conferencing clients.

Associate Software Engineer – Product Development
HARMAN International 📅 Dec 2020 – Dec 2021

- Designed and developed a desktop simulator for an IoT device, streamlining the development process and doubling overall efficiency.
- Engineered real-time data visualization for an embedded healthcare device without GPU acceleration, maintaining CPU usage below 30%.
- Created a dynamic front-end for a vaccination booking portal in just one month, enabling employees across the country to schedule vaccine appointments seamlessly.
- Built an emulator to simplify the development process, achieving a 25% boost in team efficiency.

Associate Professional Software Engineer
DXC Technology 📅 Jul 2020 – Nov 2020

- Excelled as a Salesforce developer with outstanding performance on Trailhead, designing and implementing an analytics dashboard layout using Salesforce Einstein.

Research Intern
Indian Space Research Organisation 📅 Jun 2019 – Sep 2019

- Conducted research on semantic segmentation of satellite images using deep learning models, processed raw data with GIS tools on a supercomputer, and presented findings at the All India ISRO Conference, achieving precise geospatial feature identification.

EDUCATION

Indian Institute of Technology, Jodhpur
MTech AI 2024 – 2026

Rajiv Gandhi Proudyogiki Vishwavidyalaya
BE CSE 2016 – 2020

Indore Public School
Senior Secondary School 2015 – 2016

St. Norbert S. S. School
Secondary School 2013 – 2014

SKILLS

- **Advanced:** C++, Linux, Python, Bash
- **Intermediate:** TensorFlow, PyTorch, OpenCV, Machine Learning, Deep Learning, Keras
- **Beginner:** Scikit-learn, Seaborn, SciPy, NumPy, Matplotlib, Pandas

AWARDS

- **Innovator of the year 2023** Jio
- **Hackathon Winner** Harman

RESEARCH

- Recognition of Indian Sign Language using ORB with bag of visual words by Kinect sensor https://doi.org/10.1080/03772063.2020.1739569
- Successive Image Recognition with canny edge detection and ORB on RGB and depth images https://bit.ly/2QQJQfT

PROJECTS

ML Framework *C++, Python*
Currently developing header based C++ machine learning framework with all basic functionality.

Cognitive Recommender *NodeJS, Electron*
Recommender system cross platform desktop application https://bit.ly/2HOqzGZ

Sudoku Desktop Game *Python, Pygame*
Highly competitive desktop game with all graphics built from scratch https://bit.ly/2RfPmIe

Art Mac Website *Python, Django*
Full stack website with automatic server generated replies https://bit.ly/2T1ddIK