

Sharon Dev Saseendran

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SKILLS

Languages: Java EE · Python · JS · SQL

MLOps: PyTorch · LangChain · Hugging Face · Pinecone

Technologies: Flutter · Flask · Spring Boot · FastAPI · PostgreSQL · ElasticSearch · Redis · Azure · GCP

WORK EXPERIENCE

UST Global

Jan 2024 - July 2024 | Bangalore, India

Developer 1

Flutter | FlutterFlow

- Delivered a front-end cross-platform mobile app for a UK-based mortgage company, scaling from MVP to production for an estimated user base of **65k+** in record time (**30%** ahead of schedule).
- Implemented app launch animations and custom widgets, reducing UI latency by **45%** and improving TTI by **1.8s**.
- Integrated Equifax credit score dashboards used by over **60% of daily active users** to assess mortgage eligibility, reducing drop-off during pre-approval flow by 35%.
- Worked towards achieving 85% crash-free sessions in Android and iOS post-release through proactive optimization and Flutter performance profiling with GA and FlutterFire.

Moonraft Innovation Labs (acquired by UST)

Feb 2023 - Dec 2023 | Bangalore, India

Software Engineer (Digital Experience)

Spring Boot | Flask | ElasticSearch | Pinecone | ETL | MongoDB

- Built a plug-and-play semantic search module for corporate websites, cutting information retrieval time by **60%** for **500+ users**.
- Deployed a Spring Boot backend that supported upto **20 concurrent scraping/indexing jobs daily**, with retry mechanisms and job monitors for uninterrupted data flow.
- Built an intuitive admin UI to trigger and track ETL workflows for site updates, enabling reduced **setup time of the website indexing as low as 2-3 days**.
- Contributed to the DL Vision team of a Product Comparison Engine for ecommerce platforms, generating embedding for over 50K products for similarity-based search across multiple ecommerce brands.
- Led a 3-member ETL team to scrape, clean and enrich **50K+** product listings.

Microsoft

Aug 2021 - Feb 2023 | Hyderabad, India

CSA-Engineering

Microsoft Intune | Azure AD | MECM | Microsoft Defender

- SME for Microsoft Intune, Azure AD, and MECM, helping 70+ enterprise clients manage and secure over **200K+ endpoints**.
- Responsible for training, advisory, and building POCs for premier customers on M365 and Azure.
- Trained 100+ engineers in Microsoft security practices, boosting client-side resolution rate by **15%**.

EDUCATION

University at Buffalo, State University of New York

New York, United States

Masters in Computer Science (Specialization in AI/ML)

August 2024 - present

Cumulative GPA: 3.75/4

Relevant Coursework: Machine Learning · Deep Learning · Data Modeling and Query Language · Algorithms

Cochin University of Science and Technology, School of Engineering

Kerala, India

Bachelor of Technology in Electronics and Communication

June 2017 - May 2021

Cumulative GPA: 9.36/10

Relevant Coursework: Computer Architecture · Object Oriented Programming · Embedded Systems · Discrete Mathematics

ACADEMIC PROJECTS

Visual Question Answering for Real-world accessibility

2025

- Developed a VQA system for real-world images, addressing challenges like blur, and poor lighting from the VizWiz dataset.
- We combined the pre-trained CLIP ViT-B/32 vision-language encoder and a trainable lightweight multi-head classifier to generate textual answer predictions with a test acc. of approx. **70%**.

Data Augmentation with DCGANs for Chest X-ray Pneumonia

2025

- Implemented Deep Convolutional GAN to generate synthetic 64×64 chest X-ray images, for solving pneumonia dataset imbalance.
- Trained generator-discriminator pairs for 20 epochs with Adam + BCE loss, yielding qualitatively convincing outputs that improved downstream classifier robustness.