

PRAJEET DARDA

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Education

Arizona State University (ASU) <i>Master of Science in Computer Science (GPA: 4.00/4.00)</i>	Jan 2024 – Dec 2025
	<i>Tempe, AZ</i>
Indian Institute of Technology (IIT) Mandi <i>Bachelor of Technology, Computer Science & Engineering</i>	Jul 2017 – May 2021
	<i>Mandi, India</i>

Professional Experience

Topline Co., Ltd <i>Software Engineer</i>	Oct 2021 – Nov 2023
<ul style="list-style-type: none">Spearheaded the migration of a legacy CRM monolith to a domain-driven microservices architecture managing 100k+ client records, decoupling core logic to sustain 99.99% uptime.Engineered the beta launch of an LLM-assisted response engine with automated PII redaction and a real-time sentiment pipeline for priority escalation, reducing manual drafting effort by 50% during pilot testing.Reduced complex query latency by 80% (2s to 400ms) by engineering a high-throughput search engine using Elasticsearch and Redis, enabling agents to meet strict SLA targets.Strengthened system security with Role-Based Access Controls (RBAC), encrypted REST APIs, and detailed audit logging, passing compliance reviews with zero critical findings.Accelerated release cycles by implementing CI/CD pipelines (GitHub Actions), enabling daily production deployments with minimal disruption in Agile/Scrum workflows.Gathered requirements from 20+ sales agents across sales, marketing, and customer service teams, translating pain points into unified data flows that reduced call handling time by 15% and enabled 360-degree client views.Enhanced software reliability by conducting peer code reviews, updating technical documentation, and increasing unit test coverage to 85% using JUnit and PyTest, ensuring stable production releases.	<i>Saitama, Japan</i>

Tech Stack: React, Spring Boot, Python, PostgreSQL, Redis, Elasticsearch, Kafka, AWS (EKS, S3), Docker, Kubernetes

Topline Co., Ltd <i>Software Engineer Intern</i>	Jun 2020 – Aug 2020
	<i>Saitama, Japan</i>

- Developed a **real-time call analytics platform** (Flask + Google Speech-to-Text) processing **100+ calls/day**, automating transcription, translation, and sentiment analysis to improve call handling speed.
- Delivered **NLP-powered dashboards** providing managers with real-time call quality insights, reducing feedback cycle time by **30%**.

Certifications

AWS Certified Developer – Associate DVA-C02 (View Credential)	2025
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Amazon Web Services (AWS)

Projects

AutoCRM: Autonomous Support Agent Swarm (Live Demo)	2025
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- Built a **Multi-Agent** autonomous ticket resolution platform using **LangGraph orchestration** and **MCP**, achieving a **90% automated resolution rate** with **40% lower query latency** via parallelized SQL.
- Implemented **Human-in-the-Loop** approval workflows for high-risk actions with **Pydantic-validated** tool schemas, preventing **hallucinated API calls** and ensuring zero financial discrepancies.

Cloud-Native Face Recognition with Deep Learning	2024
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- Designed a distributed **face recognition system** simulating smart camera networks, where IoT devices identify faces in real time for secure, privacy-preserving analytics used across 100+ test video streams.
- Implemented a hybrid pipeline using **AWS EC2, Lambda, and IoT Greengrass** for on-device detection (MTCNN) and cloud recognition, achieving **98+% accuracy** with **sub-second latency** and reduced cloud cost by 20%.

Multimodal AI Discovery Platform (Live Demo)	2025
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- Built a **RAG-based movie recommender** on **AWS Lambda + Vercel**; integrated **LangChain, Pinecone, and OpenSearch** for semantic retrieval, serving **1k+ daily queries** with sub-second latency.
- Engineered an **end-to-end ML pipeline** that scraped **6k+ tracks** to **fine-tune PANNs (CNN14)**; achieved **95% accuracy** in audio feature detection, powering personalized playlist generation.

Skills

Programming: Python, Java, JavaScript, TypeScript, C/C++, SQL, HTML5/CSS

Full Stack: React.js, Next.js, Node.js, Spring Boot, REST, GraphQL, PostgreSQL, MongoDB, Redis, NoSQL databases

Cloud & DevOps: AWS (EC2, Lambda, S3, CloudFront, Terraform), Docker, Kubernetes, Kafka, Git

AI/ML: PyTorch, TensorFlow, Scikit-learn, Hugging Face, Transformers, NLP, RAG, Generative AI, AI Agents, MLOps

Fundamentals: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), System Design, Distributed Systems, Computer Networks, Operating Systems, Microservices, Unit Testing, Linux/Unix