

Smriti Reddy Uravakonda

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EDUCATION

Northeastern University, Khoury College of Computer Sciences | Boston, MA | **Graduated May 2026**

Master of Science in Computer Science | GPA: 3.6/4.0

Relevant Coursework: Distributed Systems, Cloud Computing, AI, Algorithms, Database Systems, Parallel Data Processing

Dayananda Sagar University | Bangalore, India | **June 2024**

Bachelor of Technology in Computer Science | GPA: 3.7/4.0

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, C++, SQL, Node.js

Frameworks: Spring Boot, Django, FastAPI, React, Spring Webflux

ML/AI: PyTorch, TensorFlow, Scikit-Learn, HuggingFace Transformers, NLLB-200, XGBoost, SMOTE

Databases: MySQL, PostgreSQL, MongoDB, Redis, SQLAlchemy

Cloud & DevOps: AWS (EC2, S3, Lambda, RDS), GCP, Firebase, Docker, Kubernetes, CI/CD, GitHub Actions

Concepts: REST APIs, OAuth2/JWT, Microservices, System Design, Distributed Systems, Agile, MLflow

EXPERIENCE

Software Engineering Intern | Mekhalyn Consulting | Bangalore, India | **Jan 2024 – May 2024**

- Built **RESTful Node.js** backend with **SQL Server**, cutting API response time by **20%** and boosting request throughput by **35%** for high-traffic recruitment workflows.
- Introduced DB indexing and query optimization, improving read performance by **12%** on **500K+** row tables.
- Implemented **CI/CD** via **GitHub Actions**, reducing feature delivery cycle from 3 weeks to under 2 weeks.

AI Engineering Intern | Vitesco Technologies | Bangalore, India | **Sep 2023 – Dec 2023**

- Built modular **Python ETL** pipelines handling **200K+** records for data cleaning, transformation, and feature engineering, feeding a **logistic regression** classifier achieving **85%** accuracy.
- Reduced pipeline runtime by **17%** through vectorized NumPy operations; automated Power BI reporting saving **6 hours/week** of manual effort.

PROJECTS

CourtAccess AI — Multilingual Legal Document Pipeline | **Jan 2026 – Present**

Python, FastAPI, NLLB-200, Groq LLaMA 3.3 70B, PaddleOCR, Tesseract, GCP, Firebase, React, TypeScript

- Engineered modular document processing pipeline handling digital PDFs, scanned documents, and handwritten pages across 3 distinct paths with a unified **12-stage** orchestration layer; presented at **Google Expo** for **Massachusetts Trial Court**.
- Built translation verification module using **Groq LLaMA 3.3 70B** to flag low-confidence outputs, reducing critical mistranslation rate by approximately **30%** over baseline **NLLB-200**; evaluated using **BLEU** and **BERTScore** metrics.
- Integrated **PaddleOCR**, **Tesseract**, **Microsoft Presidio PII redaction**, **Firebase/GCP** authentication, and **async SQLAlchemy** — processing a **10-page** legal form end-to-end in under **40 seconds**.

Fault-Tolerant Distributed Key-Value Store | **Aug 2025 – Dec 2025**

C++, RAFT Consensus, Distributed Systems

- Built fault-tolerant replicated key-value store in **C++** supporting concurrent reads/writes across a **5-node** cluster, maintaining correctness under node failures and network partitions.
- Implemented **RAFT consensus** from scratch — leader election, log replication, state machine replication — achieving **8,000+ ops/sec** under simulated **30%** node failure rate.
- Identified and resolved lock contention bottleneck through performance benchmarking, improving write throughput by **22%**; reduced failover recovery to under **200ms**.

Secure Payment Microservice | **Feb 2026 – Present**

Spring Boot, Django, Docker, AWS EC2, OAuth2/JWT, MySQL, MongoDB, Redis

- Built dual-service **microservices** architecture — **Spring Boot REST API** for transaction management and **Django** fraud-scoring service — containerized with **Docker**, orchestrated via **docker-compose**.
- Implemented **OAuth2/JWT** authentication and role-based authorization; **MySQL** for transactions, **MongoDB** for session/audit logs; deployed on **AWS EC2** with shared **API gateway**.

PUBLICATIONS

"Optimizing Computation Offloading for Mobile Edge Devices using Particle Swarm Optimisation" — **IEEE ICAECT 2024**

"Environmental Impact Analysis using Satellite Image Processing" — **IEEE ASIANCON 2024**