

Eswardeep Pujala

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Education

University of Texas at Dallas

Aug 2024 – May 2026

M.S. in Computer Science

GPA: 3.58

Coursework: Machine Learning (PyTorch, TensorFlow), Database Systems (MySQL), Operating Systems (C, Linux), Data Structures & Algorithms (C++), Probability and Statistics for Data Science (R language)

BITS Pilani, Goa Campus

2020 – 2024

B.E. in Electronics and Communication Engineering

Built a 5G antenna dual band as part of academic research.(MATLAB, CST)

Professional Experience

Zluri

Jul 2023 – Dec 2023

Full-stack Engineering Intern

INDIA

- Optimized database queries, caching strategies, and backend structures, improving overall backend performance by **30%** and reducing API response times by **2 seconds** under heavy load by optimizing database structures and applying object-oriented programming.
- Developed a data pipeline to seamlessly migrate data from **MongoDB** to **PostgreSQL** using cron jobs, ensuring **100%** data consistency and improved scalability for large datasets.
- Collaborated with **cross-functional teams** in an Agile environment, leading to faster development cycles and high-quality software releases.
- **Technologies:** Express.js, React.js, Node.js, PostgreSQL, MongoDB, JavaScript, REST APIs, Docker, SQL.

Yashodha Hospital

Jun 2022 – Aug 2022

Software Development Intern

INDIA

- Developed a cross-platform mobile app to monitor doctor hand hygiene compliance.
- Implemented automated alerts for hospitals when compliance scores drop below 78% (general) or 90% (critical care).
- **Technologies:** React Native, JavaScript, RESTful APIs, Firebase.

Technical Projects

Integbot – AI-Powered Chatbot (*Python, ChromaDB, Langchain, JavaScript*)

[GitHub](#)

- Won **Zluri's Gen-AI Hackathon** against **50+ teams** by developing an AI chatbot with multi-system integration capabilities.

Order Finder–Serverless Real-Time Tracking System (*Golang, AWS Lambda, DynamoDB, API Gateway*)

[GitHub](#)

- Enabled **100+ concurrent users** to track real-time order statuses by migrating to a **serverless architecture** with AWS Lambda, DynamoDB, and API Gateway.

Concurrent Threads Simulation (*C, Linux, pthreads*)

[GitHub](#)

- Developed a **multi-threaded simulation** handling **50+ threads** with mutexes and semaphores for synchronization and deadlock prevention.
- Designed a priority queue for student request management, optimizing resource allocation and reducing wait times.

Job Alert Bot (*Python, Playwright, Telegram API, NoSQL*)

[GitHub](#)

- Built a Telegram bot to scrape and notify real-time job postings using custom filters and automated scheduling via GitHub Actions.
- Designed a lightweight **NoSQL caching** to prevent duplicate alerts and enable future migration to cloud backends.

Additional Skills

- **Machine Learning & AI:** NLP (spaCy, NLTK), Hugging Face.
- **Big Data & Distributed Systems:** Hadoop, Spark.
- **Cloud & DevOps:** CI/CD, Shell Scripting, Agile, SDLC.
- **Soft Skills:** Leadership, Communication, Teamwork, Adaptability, Time Management.