

MYTHRI POPURI

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Summary : Creative and impact-driven software engineer with a strong foundation in computer science and real-world experience launching and scaling tech-driven solutions. Led and co-developed projects from idea to deployment.

EDUCATION

University of North Texas, Masters in Computer Science | **GPA: 3.9/4.0**

Aug 2023 - May 2025

Relevant Coursework: Artificial Intelligence, Big Data, Machine Learning, Computer Algorithms, Software Engineering.

EXPERIENCE

LaunchX

UC, Berkeley, CA

Software Engineer

Jun 2025 - Present

- Engineering an **AI agent** using **Python**, **FastAPI**, **Google OR-Tools**, and **LangChain** to automate intern workload optimization by generating constraint-based schedules with task distribution.
- Developed a responsive admin dashboard using **React.js** and **Tailwind CSS** to visualize schedules, track intern availability, and trigger re-generation workflows.

Data and Tech Intern

Jun 2024 - Aug 2024

- Built a recommendation engine using **PyTorch**, **FastAPI**, and **Redis** on **AWS EC2** to deliver personalized resource suggestions and improved relevance by 91% based on user feedback and reduced manual filtering workload.
- Implemented a Flask-based chatbot integrated with **RAG** and **Airtable APIs** to automate document retrieval and query handling for 300+ users, reducing manual lookup steps and improving response time by 40%.

University of North Texas

Denton, Texas

Software Engineer

Aug 2023 - May 2025

- Optimized cross browser test automation using **Pytest** and **Selenium** to validate makerspace scheduling tools which reduced manual QA effort and helped catch **10+** critical bugs pre-deployment.
- Programmed a **Django** based pod booking system with **PostgreSQL** and **LDAP** login for UNT Library, implementing real time slot conflict prevention and reduced double booking by **45%** across **5K+** reservations.
- Built an equipment inventory tracker with **Node.js**, **Express**, and **Elasticsearch** to log and provide real-time, searchable records for **700+** items across the makerspace.
- Resolved **100+** support tickets via **Jira** and **Freshdesk** for UNT Library teams, troubleshooting LibApps, SharePoint, and Active Directory issues.
- Collaborated with a cross-functional team to build a library fine processing system using **Django** and **Celery**, enabling real-time fine calculation and form-based clearance workflows for students.
- Integrated **OAuth 2.0** with Student Financial Services to sync fines to student accounts, reducing manual intervention and ensuring accurate financial record updates across **20K+** users.

Cognizant

Remote

Programmer Analyst

Sep 2022 - May 2023

- Spearheaded a Spring Boot microservice using **Java** and **Maven** for a pharmaceutical client to handle promotional content approval workflows and log compliance events across audit systems.
- Integrated **MongoDB** and **Apache Kafka** to stream content metadata and process approval events in real time, handling **500+** daily operations, ensuring traceability and low-latency handling of review cycles.
- Automated **Jenkins** pipelines to deploy Dockerized Spring Boot apps, reducing release cycle time by **25%** across staging and production.
- Ensured **99.5%** service uptime by implementing exception handling, tuning memory configs, and monitoring distributed services using built in Spring Boot metrics and enterprise monitoring tools.

PROJECTS (see more projects on GitHub: github.com/MythriP)

We Zaap: LLM powered Mock Interview platform

Mar 2025

- Developed a **multimodal** AI interview simulator integrating **RAG**, **NLP** and **PostgreSQL** based models to dynamically generate, transcribe, and evaluate(using **WhisperAPIs**) mock interviews (winning **UNT hackathon**).

Pullr [<https://pullr.org/>]

Jun 2025

- Portfolio generation platform using **React**, **TypeScript**, **LlamaIndex**, **Pinecone**, **OpenAI** embeddings and **Three.js** for an interactive user interface reducing average portfolio creation time to 30-40 mins.
- Designing a recruiter system with **RBAC** controlled job visibility and semantic matching algorithms.

SKILLS

Languages & Databases : Python, Java, C, SQL , MySQL, PostgreSQL, MongoDB, Redis

Frontend: TypeScript, React, JavaScript, Next.js, Three.js, HTML5, Tailwind CSS

Backend: FastAPI, Django, Spring Boot, REST, Microservices, JUnit

AI/ML: PyTorch, TensorFlow, Scikit-learn, LangChain, NumPy, Pandas, Model Tuning, RAG Pipelines, LLMs

Tools & Technologies: AWS, GCP, Git, CI/CD, VSCode, Docker, Kubernetes, Multi-tiered Architecture, Object-Oriented Programming, Design Patterns, Distributed Systems

Certifications: AWS Cloud Foundations, AWS Data Analytics, NPTEL - Blockchain and Applications