

Yukta Piyush Shah

📞 +1-214-899-1364 | 📩 yuktash2000@gmail.com | LinkedIn [Yukta Shah](#) | GitHub [GitHub](#)

EDUCATION

University of Texas at Dallas, Texas Master's in Computer Science	Aug 2024 – May 2026
Relevant Coursework: Computer Networks, DBMS, Algorithms, Operating System, Artificial Intelligence	CGPA: 3.5
Sardar Vallabhbhai National Institute Of Technology Bachelor's in Computer Engineering	Jul 2018 – Jul 2022
Relevant Coursework: Software Engineering, IoT Security, Data Structures, Machine Learning, Cloud Computing	CGPA: 3.6

TECHNICAL SKILLS

Languages	: Python, Javascript, Java, Typescript, SQL
Frameworks	: Django, Angular, SpringBoot, ReactJS, NodeJS, ExpressJS, PyTorch, TailwindCSS
Databases	: MySQL, PostgreSQL, DynamoDB, MongoDB, Hazelcast, SybaseDB, Neo4j
Cloud & DevOps	: Apache Kafka, PySpark, Jenkins, Docker, Podman, Kubernetes
Certifications	: Microsoft Certified: Azure Fundamentals (AZ-900), Google Cybersecurity Professional Certificate

PROFESSIONAL EXPERIENCE

Union Bank of Switzerland (UBS) Software Engineer	July 2022 – July 2024
Technologies Used: Apache Kafka, PySpark, FastAPI Microservices, Grafana, SQL, Kubernetes	Pune, India
<ul style="list-style-type: none">Worked in a cross-functional team of 11 to design and deploy ETL pipelines processing 10M+ records across 600+ business scenarios, reducing analysis time by 40%.Migrated batch-driven pipelines to event-driven architecture with Apache Kafka, reducing data latency from hours to near real-time and enabling processing of 10M+ events/day.Developed FastAPI microservices to replace monolithic services, reducing backend latency by 30%.Delivered real-time monitoring dashboards with Grafana and Prometheus, increasing observability accuracy by 30%.Resolved 100+ vulnerabilities and performed SSL upgrades across 10+ production clusters, to strengthen platform security.	
Credit Suisse Technology Analyst Intern	May 2021 – July 2021
Technologies Used: Python, RASA, NLP, Shell Scripting, ServiceNow	Pune, India
<ul style="list-style-type: none">Designed training datasets, intents, and dialogue flows, gaining hands-on experience in natural language understanding (NLU) and dialogue management, foundational concepts for LLM-based assistants.Built and deployed an AI-powered conversational assistant using RASA, reducing manual intervention by 40% and improving response times for production support queries.Automated ServiceNow workflows with Python scripting, reducing incident and change request processing time by 40%.	
Tread Binary Technologies Pvt. Ltd. Python Developer Intern	Dec 2020 – Mar 2021
Technologies Used: Django REST Framework, Angular 9, Celery, RabbitMQ, MongoDB, JWT	Mumbai, India
<ul style="list-style-type: none">Developed secure backend APIs with Django REST Framework, integrated Celery & RabbitMQ for asynchronous tasks, and enforced JWT authentication, aligning with healthcare-grade security practices.Designed an Angular frontend, improving workflow efficiency by 30% and reducing backend response time by 20%.Pioneered a high-efficiency mock data creation platform using Django REST Framework and Angular 9 unified with MongoDB for real-time analytics, delivering a 70% reduction in development time and a 25% increase in data accuracy.	

ACADEMIC PROJECTS

GraphTalk (Application) LangChain, LangGraph, OpenAI, Streamlit, Python, Docker, LangFuse	
<ul style="list-style-type: none">Developed a conversational AI assistant using LangChain and LangGraph, enabling multi-turn dialogue and context-aware responses and integrated OpenAI GPT for natural language understanding, allowing the assistant to parse user queries and generate intelligent responses.Built an interactive web interface with Streamlit and implemented monitoring and debugging workflows using LangFuse	
LitLens (Application) Python, OpenAI API, Neo4j, Pinecone, Flask, Streamlit, Machine Learning, AI	
<ul style="list-style-type: none">Built an AI-powered semantic book recommendation system using OpenAI embeddings, Pinecone, and a knowledge graph, boosting suggestion accuracy by 40%.Developed a real-time interactive UI with Streamlit simulating a reader's dashboard for personalized book recommendations.Indexed 20,000+ books in the knowledge graph, enabling fast semantic search with 60% lower recommendation latency.	
React-Notes-App (Application) React, TailwindCSS, Context API, Netlify	
<ul style="list-style-type: none">Built a note-taking application enabling efficient note creation, management, and organization with features such as pinned, starred, archived, and permanently deletable notes.	

LEADERSHIP & ACHIEVEMENTS

- Smart India Hackathon 2020 Winner:** Won the Best Project award for **Cyber Ally**, a cybercrime prevention application developed for MHRD, India.
- ASEAN India Hackathon 2021 Winner:** Won the ASEAN India Hackathon by collaborating with an **international team** to develop an AI-powered prototype using **satellite imagery** to optimize Traffic Management in Coastal Regions.
- Student Assistant, UT Dallas Parking & Transportation:** Supported campus operations, streamlining parking and transportation services and improving efficiency for over **5,000 students and staff**.