

Venkatesh Kelam

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Education

Master of Science in Information Systems <i>Northeastern University, Boston, MA</i>	Aug 2023 – Dec 2025 GPA: 3.95/4.0
Bachelor of Technology in Information Technology <i>Anna University, India</i>	Aug 2019 – May 2023 GPA: 3.6/4.0

Work Experience

Software Engineer Intern Ipser Labs, San Jose, CA	Feb 2025 – Jul 2025
<ul style="list-style-type: none">Designed and maintained backend Python microservices in a distributed environment, collaborating with downstream Java services and addressing retry behavior and latency issues impacting system stability.Built asynchronous data pipelines (ETL) using Python, AWS SQS, and Lambda-style workers to extract data from APIs, transform payloads, and load results into relational and NoSQL data stores.Performed parallel analytics on high-volume datasets using load-testing results and telemetry data to identify bottlenecks and optimize latency and throughput.Leveraged AWS (EC2, ECS, S3, DynamoDB, CloudWatch) to deploy, monitor, and scale data-driven services in cloud environments.	
Software Developer Cybrowse Digital Solutions, Chennai, India	Apr 2022 – Apr 2023

Projects

Research Summarization System Python, Streamlit, AWS, OpenAI	Dec 2025
<ul style="list-style-type: none">Designed a research summarization pipeline using Streamlit and API Gateway for document ingestion.Built an agent-based retrieval and reranking workflow integrating OpenAI summarization with PostgreSQL.	
Real Estate Website React, Node.js, PostgreSQL, DynamoDB	May 2025
<ul style="list-style-type: none">Built a full-stack real estate web application with React and Node.js to support property search and filtering.Modeled relational property data in PostgreSQL and flexible listing metadata in DynamoDB for scalable querying.	
Healixity – Cloud Health Assistant Go, Next.js, PostgreSQL, Redis	Feb 2025
<ul style="list-style-type: none">Built real-time health dashboards using a Go backend and Next.js frontend for low-latency monitoring workflows.Optimized REST APIs with connection pooling and query tuning, reducing latency from 450ms to 120ms.Used CloudWatch metrics and logs to monitor performance and troubleshoot issues.	
EasyEmail – AI Email Assistant Python, FastAPI, LangChain, Docker	Dec 2024
<ul style="list-style-type: none">Built FastAPI email summarization & search with LangChain & OpenAI embeddings, cutting manual triage time by 60%.Implemented async batching with SQS and AWS Lambda to handle concurrent emails and prevent API throttling.	

Technical Skills & Certification

Languages: Python, Java, Go, JavaScript, TypeScript, SQL

Backend & Systems: REST APIs, Microservices, Spring Boot, Node.js, API design & versioning

Databases: PostgreSQL, MySQL, Redis, MongoDB

Cloud & DevOps: AWS (EC2, ECS, S3, DynamoDB, CloudWatch), Docker, Terraform, CI/CD pipelines

Certification: AWS Certified Solutions Architect – Associate

Leadership & Activities

Co-Founder — AI & Data Club Northeastern University	Aug 2024 – Dec 2025
<ul style="list-style-type: none">Co-founded the AI & Data Club to promote hands-on learning in AI, data engineering, and applied systems.Organized peer-led projects and technical workshops to foster practical application of ML and data concepts.	