

APOORV VERMA

(978) 930-7023 • apoory@bu.edu • [GitHub](#) • [LinkedIn](#) • [Portfolio](#)

EXPERIENCE

Lead AI Software Engineer - <i>Luminiphi Labs</i>	USA, Sep 2025 – Present
• Architected a scalable RAG pipeline using LangChain and Pinecone , reducing information retrieval latency by 40%.	
• Developed advanced retrieval strategies with LlamaIndex , with an 'LLM-as-a-Judge' framework to automate A/B testing.	
• Deployed containerized LLM microservices using Docker and Kubernetes (EKS & GKE) with comprehensive observability dashboards using Grafana & Prometheus to monitor Token-Per-Second, latency, and API error rates.	
Software Engineer II - <i>Gytworkz Technologies</i>	India, Apr 2023 – Dec 2023
• Architected and built microservices with Node.js (TypeScript) , AWS SNS and SQS , supporting over 10K daily interactions.	
• Spearheaded back-end development on 3 startup products; launched and authored pivotal microservices (RESTful APIs and backend on Node.js, AWS API Gateway, EC2, and Lambda); and processed over 100K transactions monthly.	
• Migrated infra from CloudFormation to Terraform (VPC, ECS, RDS, IAM) , cutting configuration drift by 95%.	
• Created custom Docker images and supervised container lifecycle with Kubernetes pods, replication controllers, namespaces, and deployments using YAML configuration files and utilized Helm for managing Kubernetes charts.	
• Mentored a team of 7 developers on clean code & rigorously applying SOLID & Object-Oriented Design principles .	
Software Engineer - <i>Gytworkz Technologies</i>	India, Jul 2021 – Apr 2023
• Led the development of micro-frontends for a custom CRM application on React with Redux, GraphQL (Apollo), & Jest .	
• Engineered scalable backend solutions for critical services - including real-time appointment booking (SQS, Lambda), chat systems (Socket.IO), and Geofencing (PostgreSQL with PostGIS) - that handled 2K+ concurrent bookings daily.	
• Pioneered robust CI/CD pipelines using Jenkins & GitLab , automating building, testing, and deployment processes across multiple environments, resulting in a 40% reduction in deployment time.	
• Migrated a backend from MongoDB to PostgreSQL and Node.js (TypeScript) , improving operational efficiency by 60%.	
• Designed and revitalized 10+ responsive front-end applications with React & Next.js (TypeScript) with Tailwind CSS .	
Software Engineering Intern - <i>Digital Projekt</i>	India, Jul 2020 – Jul 2021
• Developed a contact center using AWS Lambda, API Gateway, S3, DynamoDB, RDS, SNS, IAM, and CloudWatch .	
• Achieved OAuth2/JWT security flows and wrote comprehensive unit/integration tests, achieving 90% code coverage.	

ACADEMIC PROJECTS

Finance Tracker – <i>Next.js, Hono, Drizzle ORM, Clerk, Neon, PostgreSQL, Tailwind CSS</i>	Jan 2025 – Feb 2025
A Web app for personal finances; tracks income, expenses; visualizes spending habits and payments through charts.	
MenuGenie – <i>Next.js, Node.js, Postgres, USDA API, HF Transformers(Donut, LayoutLMv3, mBART)</i>	Oct 2024 – Dec 2024
An AI pipeline that OCRs menu photos into clean JSON, detects allergens with NER, and provides translations/summaries.	
Shipment Tracking System – <i>Kubernetes, Docker, Jenkins, CI/CD pipelines</i>	Jul 2024 – Sep 2024
Orchestrated Docker file creation and built custom Docker container images for 5+ Microservices and Architected a highly scalable Kubernetes cluster in AWS, creating and deploying 10+ manifest files for services in a master-worker cluster setup.	

EDUCATION

Master of Science in Computer Information Systems - Boston University, MA, USA	May 2025
• Teaching Assistant for: Artificial Intelligence & ML (CDS DS340) and Data Science with Python (CDS DS110)	
Bachelor of Technology in Computer Science - Shri Vaishnav Institute of Information Technology, India	Jul 2021

SKILLS

Languages/Frameworks:	TypeScript/Javascript (React, Next.js, Node.js), Python (FastAPI, Flask), Java (Spring Boot)
Cloud & Serverless:	Azure Functions, AWS (CloudFormation, Lambda, API Gateway, IAM), Google Cloud
Databases & Tools:	PostgreSQL, MySQL, MongoDB, Redis, Gitflow, DynamoDB, Amazon RDS, Sequelize
AI, DevOps & CI/CD:	Terraform, Docker, Kubernetes, SonarQube, Prometheus, Grafana, LangChain, LlamaIndex