

# APOORV VERMA

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## WORK EXPERIENCE

- Lead Software Engineer - Luminiphi Labs** USA, Sep 2023 - Present
- Leading a team of five software engineers: running code reviews and owning **end-to-end architecture** for **LLM apps**.
  - Building **agentic LLM** platform serving 10K+ req/day across 10 services and implementing prompt and version controls.
- Software Engineer II - Gytworkz Technologies** India, Apr 2023 - Dec 2023
- Architected and built a **microservice** based backend for a Dynamic Contact Center with **Node.js (TypeScript)** and **Twilio APIs, Amazon Connect, SNS, and SQS**, supporting over 10K daily interactions and powering AI workflows.
  - Spearheaded back-end development on three startup products; launched and authored pivotal **microservices** for engagement slot creation (REST APIs on **API Gateway, SQS, and Lambda**); and processed over 10K transactions weekly.
  - Migrated infra from **CloudFormation** to **Terraform (VPC, EKS/ECS, RDS, IAM)** into 10 reusable modules, cutting config drift 95% and implemented SLO dashboards/alerts (**Datadog/Prometheus**).
  - Developed and maintained 20+ **Azure Functions** in **Python**, orchestrating high-compute analytics pipelines and automated **CI/CD** with **Azure Pipelines** and **Terraform**, cutting feature-release lead time from 2 weeks to 2 days.
- Software Engineer - Gytworkz Technologies** India, Jul 2021 - Apr 2023
- Engineered scalable backend solutions for critical services - including real-time appointment booking (**SQS, Lambda**), chat systems (**Socket.IO**), Geofencing (**PostgreSQL with PostGIS**) - that handled 2,000+ concurrent bookings daily.
  - Mentored a team of developers on maintaining clean code practices and rigorously applying **SOLID principles, Object oriented design** in development, leading to improved code quality, concise & quick design and code reviews.
  - Engineered robust **CI/CD pipelines** using **Jenkins & GitLab**, automating building, testing, and deployment processes across multiple environments, resulting in a 40% reduction in deployment time and lifting development productivity.
  - Cooperated closely with key stakeholders for gathering requirements to migrate and scale a fleet management application backend from **MongoDB** to **PostgreSQL** and **Node.js (TypeScript)**, improving operational efficiency by 60%.
  - 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.
- Software Engineering Intern - Digital Projekt** India, Jul 2020 - Jun 2021
- Developed a cloud-based contact center leveraging **Amazon Connect**, including **AWS services: Lambda, API Gateway, S3, DynamoDB, RDS, Pinpoint, SNS, IAM, and CloudWatch** to enhance system performance.
  - Designed and revitalized 10+ responsive front-end applications with **ReactJS & NextJS**; established project wireframes in **Adobe XD & Figma** and used **GitLab** with **Netlify** to collaborate, deploy and host these web applications.

## EDUCATION

- MS in Computer Information Systems**, Boston University, MA, USA (GPA : 3.81/4.0) May 2025
- Graduate Teaching Fellowship: **Machine Learning & AI** (DS340) and **Data Science with Python** (DS110)
- B.Tech in Computer Science**, Shri Vaishnav Institute of Information Technology, India Jul 2021

## PROJECTS

- MenuGenie** – *Next.js, FastAPI, Postgres, USDA APIs, HF Transformers(Donut, LayoutLMv3, mBART)*: An AI pipeline that OCRs menu photos/PDFs into clean JSON, detects allergens with NER, and provides translations/summaries.
- Finance Tracker** – *Next.js, Hono, Drizzle ORM, Clerk, Neon, PostgreSQL, Tailwind CSS*: A Web application that manages personal finances by tracking & visualizing income and expenses through charts; applied design patterns & SOLID principles.
- Shipment Tracking System** – *Kubernetes, Docker, Jenkins, CI/CD pipelines*: 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.

## SKILLS

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|------------------------------------|---|
| <b>Languages &amp; Frameworks:</b> | TypeScript/Javascript (Node.js, React, Next.js), Python (FastAPI, Flask), Java  |
| <b>Cloud &amp; Serverless:</b>     | AWS(CloudFormation, Lambda, SQS, API Gateway, IAM), GCP, Azure  |
| <b>Databases &amp; Tools:</b>      | PostgreSQL, MySQL, MongoDB, Redis, DynamoDB, Sequelize, GraphQL, Postman  |
| <b>DevOps, CI/CD &amp; misc:</b>   | Terraform, Docker, Kubernetes, Helm, SonarQube, Agile, OAuth, System Design, Prometheus/Grafana, Kafka, GitFlow, Nginx, Ansible, Jenkins, Nexus/JFrog |