

APOORV VERMA

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EXPERIENCE

Lead AI Software Engineer - Luminiphi Labs

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 - Gytworkz Technologies

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 - Gytworkz Technologies

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 - Digital Projekt

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 – Next.js, Hono, Drizzle ORM, Clerk, Neon, PostgreSQL, Tailwind CSS

Jan 2025 – Feb 2025

A Web app for personal finances; tracks income, expenses; visualizes spending habits and payments through charts.

MenuGenie – Next.js, Node.js, Postgres, USDA API, HF Transformers(Donut, LayoutLMv3, mBART) 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 – Kubernetes, Docker, Jenkins, CI/CD pipelines

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