

# Biswajit Satapathy

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## EDUCATION

**Boston University**, Masters in Computer Science, Boston, MA Sep 2024 – Dec 2025  
Courses: Object Oriented Programming(OOP), Graduate Algorithms, DBMS,  
Distributed Systems, Applied ML, Deep Learning, Data Science  
**Vellore Institute of Technology**, Bachelors in Computer Science, India Aug 2018 – May 2022

## PROFESSIONAL EXPERIENCE

**Full Stack Software Engineer Intern, Varmodel AI, Austin, TX** May 2025 – Aug 2025

- Automated Gemini-2.5 API integrations to generate large-scale data for **70,000+** companies, analyzing weekly reports and interpreting valuable insights using **Power BI**, reducing manual effort by **80%**.
- Built and deployed a full-stack SaaS platform (Django, TypeScript-Vue.js, PostgreSQL, DynamoDB) on **DigitalOcean** using **Docker** and CI/CD, cutting environmental bugs by **60%**.
- Integrated Salesforce, Hubspot, and LinkedIn OAuth in **React** frontends and **Node.js** backends via **REST APIs/GraphQL**, automating **70%** of communication, payments, and **CRM** sync workflows.
- Architected semantic search in **Flask**, **PostgreSQL** using **Qdrant vector DB**, **LLMs(GPT-3.5)**, **LangChain**, and **Redis** caching, improving relevance by **25%** and cutting query latency by **3s**.

**Software Developer, AppViewX Pvt. Ltd, India** Feb 2022 – Jun 2024

- Developed **Python** modules to manage **Nginx** configurations for **3,000+** devices, enhancing data consistency and reducing query latency by **25%**.
- Optimized F5 load balancer profile addition in **Java** (Spring Boot) with  $O(n \log n)$  sorting + binary search, reducing execution time by **30%** for **10,000+** devices and deployed on **AWS EC2**.
- Implemented certificate lifecycle management system using **Python**, **MongoDB**, and **AWS S3** handling **50,000+** certificates for critical customers.
- Automated **Kubernetes** cluster deletion workflow on **AWS EKS** using **Spring Boot** cluster management **microservices**, **Terraform** and **Ansible** for scalable and reliable operations.
- Implemented an event-driven system architecture using **Kafka** to synchronize Citrix load balancer configurations and object states across **5,000+** devices, enabling real-time updates.
- Enhanced **CI/CD** pipelines (**Jenkins**) and backend unit tests using **JUnit** to automate load balancer deployment, improving release quality and reducing production rollbacks by **50%**.

## PROJECTS

- **Distributed Key-Value Store** – Built a sharded, fault-tolerant key-value store in **Go** with **Omni-paxos** consensus protocol and deployed on **Google Cloud Platform (GKE/GCP)**.
- **Secure Task Management System** – Built a full-stack RBAC application using NestJS, Angular, **TypeORM**, Tailwind CSS with JWT authentication.
- **E-commerce Platform** – Built a full-stack **MERN** web app using **Cursor AI** with **Stripe** payments, using **Power BI** for report generations and real-time order management and deployed it on **Azure**.

## ACHIEVEMENTS

Hackathons **National Winner** (1st Prize, Innovation Challenge) – [Smart India Hackathon](#)  
Publications Peer-reviewed IEEE Conference Paper – [Lazy Learning kNN Classification, ViTECoN 2019](#)

## SKILLS

Languages	Python, Java, C++, Go, JavaScript/TypeScript
Backend	Node.js, Express.js, Django, Spring Boot
Frontend	React, Vue.js, Nuxt.js, Next.js, Angular, TailwindCSS, HTML, CSS
Databases	SQL (PostgreSQL, MySQL), NoSQL (MongoDB, DynamoDB, RedisDB, Cassandra)
Cloud & DevOps	AWS (EC2, EKS, S3), GCP, Azure, Kubernetes, Docker, Jenkins, Ansible, Terraform, Linux, Git, JIRA