

Venkatesh Kamat

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EDUCATION

University of Illinois Urbana Champaign

Master's in Computer Science - GPA: 4.0

Champaign, IL

Dec. 2025

Vishwakarma Institute of Information Technology

Bachelor's in Technology Computer Science - GPA: 9.7/10

Pune, India

May 2023

EXPERIENCE

Engineering IT Security Student Consultant

Nov. 2024 – Present

University of Illinois Urbana Champaign, IL

- Collaborated with IT and **5+ cross-functional teams** to integrate **security measures** into ongoing projects and daily operations, reducing security vulnerabilities by **20%**
- Led **quarterly security awareness training** for **50+ engineering team members**, resulting in a **35% decrease** in security incidents and strengthening organization-wide security culture
- Developed and deployed **automation scripts** in Golang to scan and verify status of **2,000+ IoT devices**, improving redundant asset tracking efficiency by **50%**

Software Development Engineer Intern

June 2022 – Nov. 2022

Cloudegic Inc., Pune, India

- Led and mentored a **team of 4 interns**, providing technical guidance, ensuring on-time delivery, and improving efficiency by **15%**
- Spearheaded **end-to-end product development**, contributing to **7+ features**, optimizing database schemas, and aligning deliverables with user and business needs
- Developed **secure, gas-optimized Solidity** smart contracts for **3 Web3 apps**, and executed scalable **Django** backends with 90%+ test coverage
- Integrated **JWT** authentication, **Web3.py** for blockchain interactions, and **PostgreSQL** storage; maintained **CI/CD pipelines**, cutting deployment time by **30%**

Software Development Engineer Intern

June 2021 – Dec. 2021

Code Gurukul, Pune, India

- Led backend development using the Python Django framework for an edtech startup, building and maintaining scalable **server-side** features
- Planned and implemented **RESTful APIs** to support evolving business requirements and frontend integration
- Handled user **authentication** and **authorization**, ensuring secure access and smooth user experience across the platform

PROJECTS

Cloud-Native Streaming Backend | Docker, Kubernetes, Kafka, Redis, Nginx

Dec. 2024 – Feb. 2025

- Designed and deployed a **cloud-native microservices** application supporting real-time event processing using **Node.js**, **Docker**, and **Kubernetes** on AWS, ensuring high availability and fault tolerance
- Applied asynchronous communication with **Apache Kafka**, improved performance with **Redis** caching, and managed secure user authentication and traffic routing with **Nginx**
- Integrated **HDFS**, **Amazon S3**, and **Hadoop** to enable scalable storage and distributed data processing, following **production-grade deployment** best practices for system reliability and resilience

Auctx | Web3.js, Solidity, AWS, RDS, DynamoDB, Memcached, EFS

July 2022 – 2022

- Built a **decentralized auction platform** with **Solidity** smart contracts on **Ethereum** for secure, trustless cryptocurrency transactions
- Used a **scalable data architecture** using **MySQL**, **MongoDB**, and AWS services including **RDS** and **DynamoDB**
- Enhanced performance with **Redis** and **Memcached** caching, reducing query latency and improving responsiveness

TECHNICAL SKILLS

Languages: C++, Python, Solidity, JavaScript, HTML, CSS, SQL, SPARQL, Gremlin, MySQL

Frameworks: React, Node.js, Django

Database and Caching: Mysql, Psql, Mongodb, Neo4j, DynamoDb, AWS RDS, Aurora, Redis, Memcached

Tools and Platforms: Git, Docker, Kubernetes, CI/CD, Nginx, AWS, GCP, Github, Gitlab, Postman,, VsCode, IntelliJ

Libraries: Express, Socket.io, Zustand, Pyspark, numpy, pandas Web3.js, Hadoop, Kafka