VARUN SHIVAJI GHORPADE

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EDUCATION

University of Southern California **Aug 2026 – May 2028**
Master of Science in Computer Science *Los Angeles, CA*

- **Relevant Coursework:** Analysis of Algorithms (CSCI 570), Database Systems (CSCI 585)

University of Mumbai **Jul 2019 – May 2023**
Bachelor of Engineering in Information Technology, ***CGPA: 9.37/10.0*** *Mumbai, India*

- **Relevant Coursework:** Data Structures, Operating Systems, Computer Networks, Cloud Computing, Infrastructure Security

EXPERIENCE

USC Information Technology Services **Aug 2026 – Present**
Technical Student Worker, Learning Environments *Los Angeles, CA*

- Provide Level 2 support for classroom IT infrastructure and AV systems, ensuring **99.9% availability** for live lectures.
- Automate hardware and network diagnostics with **Bash/Python** scripts, **cutting manual verification time by 25%**.

KPMG India Services LLP **Mar 2026 – Aug 2026**
Software Engineer, Infrastructure (Consultant) *Mumbai, India*

- Architected multi-node, **high-availability deployments** with active-passive disaster recovery (DC-DR) on RHEL 8.6 for **4 major banking clients**, using **Kubernetes** to orchestrate WebLogic and Tomcat services.
- Engineered **CI/CD pipelines in Go and Python** automating the provisioning of Oracle regulatory data platforms (OFSAA), **cutting release timelines by 30%** and enabling **zero-downtime upgrades**.

Software Engineer, Infrastructure (Associate Consultant) *Mar 2025 – Mar 2026*

- Profiled and optimized batch pipelines processing **50TB+ of regulatory data**; applied JVM tuning, Linux OS-level parameter configuration and PL/SQL query rewrites to **accelerate batch execution by 40%**.
- Designed Bash/cron workflows automating workload scheduling, service restarts and real-time log aggregation.
- Deployed OFSAA, ODI 12c and OBIEE/OAS stacks and authored **Basel III-compliant solution designs** for banks.

Data Engineer, OFSAA & SQL (Analyst) *Jun 2023 – Mar 2025*

- Orchestrated the OFSAA Basel Credit Risk migration (**v8.0.2 to v8.1.2**), minimizing downtime during reporting cycles.
- Developed **PL/SQL reconciliation engines** validating bidirectional data consistency between UAT and production Oracle databases, ensuring **100% data integrity** for regulatory audits.

ETL Developer Intern *Jan 2023 – Jun 2023*

- Built normalized **Erwin 15.1 data models** and validated high-throughput **ODI 12c ETL pipelines** for credit-risk data.

PROJECTS

TraceLayer – Governed AML Investigation Platform | *Next.js, TypeScript, FastAPI, PostgreSQL, LangGraph* Live Demo

- Built a governed AML platform with **row-level security on 41 tables** and a **hash-chained audit trail** for compliance.
- Trained a leakage-free **XGBoost + GNN (GATv2)** ensemble achieving **61.2 AUPRC**, **96% precision@100** on IBM's AML data.
- Integrated local **LLM agents (LangGraph)** for case-narrative generation, gated by a verifier that blocks unsupported claims; validated by a **43-step Playwright** end-to-end suite across 30+ role-based screens.

SkyCrewClub – Decentralized Learning Platform | *Solidity, Polygon, Next.js, MongoDB* Indian Patent App. #202220149857

- Built a **patent-published** platform in Next.js and MongoDB managing on-chain state and token transactions for **100+ users**.
- Deployed Polygon smart contracts automating NFT credential issuance, **cutting verification from 7 days to real time**.

TECHNICAL SKILLS

Languages: Python, Java, Go, SQL (PL/SQL), TypeScript, Bash/Shell
Data Engineering: ETL (ODI 12c), Data Modeling (Erwin), Batch Processing, PostgreSQL, Oracle DB, MySQL, MongoDB, Redis
Cloud & DevOps: Linux (RHEL), Docker, Kubernetes, Jenkins, CI/CD, Git
Architecture: High Availability, Disaster Recovery (DC-DR), System Design, Oracle WebLogic, Apache Tomcat
ML & AI: XGBoost, GNNs (GATv2), LangGraph, scikit-learn
Web Frameworks: Next.js, React, FastAPI, Spring Boot, Playwright

ACHIEVEMENTS & LEADERSHIP

- **KPMG Awards (2025–2026):** Super Employee, Impact Award and Kudos Award for platform performance, enterprise delivery and infrastructure optimization for major banking clients.
- **Chairperson, RAIT ACM Student Chapter:** Led the chapter to the **Top 10 in India (of 250+)**; organized 30+ events and hackathons for 500+ participants, growing membership by 108% (120 to 250).