

Siddharth Samir Khachane

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EDUCATION

University of Southern California

Master of Science in Computer Science

- GPA: 3.82/4

August 2024 - May 2026

Los Angeles, California

PROFESSIONAL EXPERIENCE

NumisToken

May 2025 – August 2025

Full Stack Summer Intern | Java, SpringBoot, React, PostgreSQL

- Developed a high-performance **NFT** marketplace platform using Java, SpringBoot, PostgreSQL, and MyBatis backend with React frontend, enabling trading, listing, and delivery functionalities
- Optimized database concurrency and scalability by implementing **optimistic locking** to resolve concurrent request conflicts, **reducing transaction conflicts by 40%** for projected 10,000+ concurrent users.
- Engineered secure API infrastructure with **authentication interceptors** protecting 20+ backend endpoints, ensuring robust authorization and data integrity across the platform.

Ultimate Kronos Group (UKG)

January 2024 - July 2024

Senior Software Engineer | Java, SpringBoot, Python, RabbitMQ, Docker

- Developed a **Messaging Framework** in **UKG DIMENSIONS** utilizing RabbitMQ, Java and Spring Boot, facilitating smooth asynchronous communication between different microservices.
- Spearheaded development of **Resiliency Framework** automating message persistence in adverse scenarios, reducing time and efforts required to recover data by **80%** compared to previous manual persistence.

Ultimate Kronos Group (UKG)

July 2022 - January 2024

Software Engineer | Kafka, Java, SpringBoot, Docker, Grafana

- Implemented a **Common Messaging Platform** in **UKG PRO** utilizing Kafka, providing a highly scalable method for communication between microservices in the HRM application.
- Applied encryption, compression and digital signatures on data using Java and Spring Boot, ensuring secure data transmission across microservices.
- Designed unified monitoring dashboards on Grafana automating production monitoring process, reducing time to manually monitor by **50%** on daily basis resulting in performance improvement.

PROJECTS

Word-Slayer | *React, Next.js, Vercel, Tailwind CSS, Ably* | [GitHub](#) | [Live Demo](#)

- Developed a **multiplayer** typing game where players battle in real-time by typing words to defeat enemies.
- Implemented real-time **pub/sub** architecture for instant synchronization of player actions and combat states.
- Built dynamic combat mechanics with visual feedback and **live opponent tracking** across multiple difficulties.

Collab-Canvas | *React, Node.js, Socket.io, MongoDB* | [GitHub](#) | [Live Demo](#)

- Created a **real-time collaborative whiteboard** application in React, Node.js, Socket.io, and MongoDB.
- Incorporated features including instant room creation, multi-user drawing synchronization, and **persistent canvas states** stored in MongoDB.
- Deployed full-stack application on Vercel and Render enabling seamless collaboration across devices.

CodeOptimizer | *RAG, Vector Store, Ollama, HuggingFace, LangChain* | [GitHub](#)

- Created an AI-powered code assistant that provides optimizations and is **contextually aware** to answer specific questions to uploaded or GitHub-hosted codebases.
- Used **Retrieval-Augmented Generation (RAG)** with vector store and embeddings to retrieve relevant code.
- Built a UI with Markdown output and real-time chat interface powered by local LLMs.

TECHNICAL SKILLS AND CERTIFICATIONS

- AWS** (Amazon Web Services) **Developer Associate** and **Cloud Practitioner** – July 2024
- Analytical and Problem-solving skills: **GRE Score (320/340)**
- Programming Languages:** Java, Python, JavaScript, HTML, CSS, Node
- Frameworks:** Spring Boot, React, Next.js, Pytorch | Agile, Distributed Systems, Backend, Front end
- Technologies:** Kafka, RabbitMQ, Docker, Kubernetes, AWS, Grafana, GCP, Git, REST, Unit Testing
- Data Management:** MySQL, MongoDB, Neo4j | Data Structures, Algorithm Design