

# Siddharth Samir Khachane

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## EDUCATION

### University of Southern California

August 2024 - May 2026

Master of Science in Computer Science

Los Angeles, California

- GPA: 3.82/4
- Courses: Algorithms, Web Technologies, Natural Language Processing, Database Systems, Machine Learning.

## PROFESSIONAL EXPERIENCE

### NumisToken

May 2025 – August 2025

Full Stack Summer Intern

- Implemented business logic for shipping price calculation on an NFT marketplace platform, enabling accurate pricing for customer orders based on location and item attributes.
- Built authentication interceptors to secure 20+ backend API endpoints, ensuring only authorized access to protected routes.

### Ultimate Kronos Group (UKG)

January 2024 - July 2024

Senior Software Engineer

- Developed a Messaging Framework in UKG DIMENSIONS (Workforce Management Application) facilitating smooth asynchronous communication between different services utilizing RabbitMQ, Java and Spring Boot.
- Spearheaded development of Resiliency Framework automating message persistence process in adverse scenarios and reducing time and efforts required to recover data by 80% than previous solution of manual persistence.

### Ultimate Kronos Group (UKG)

July 2022 - January 2024

Software Engineer

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

## PROJECTS

### 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 AI | [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.

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

- Developed a fast-paced typing game where players defeat enemies by correctly typing displayed words under time pressure and varying difficulties.
- Implemented real-time combat mechanics with visual feedback, health bars, and approach animations.
- Created performance tracking system displaying WPM, accuracy, time, and total words typed.
- Built responsive UI with clean design using React and deployed on Vercel for instant access.

## 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