

Yash Sharma

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EDUCATION

Master of Science, Computer Science

University of Southern California

Los Angeles, CA

August 2023 – May 2025

Courses: Machine Learning, Foundations of AI, Analysis of Algorithms, Applied NLP, Security Systems, Game Engine Development, Database Systems

Bachelor of Science, Computer Science

Thakur College of Engineering and Technology

Mumbai, India

August 2019 – May 2023

EXPERIENCE

DAIN

AI SDE

February 2025 – May 2025

Los Angeles, CA

- Creating **Agentic AI** Services with **Typescript** and **LLM APIs**.
- Architect **event-driven** system for long-running **AI** tasks, enabling Butterfly Assistant to process **large datasets** and execute complex workflows **asynchronously**.
- Develop integration tools connecting Gmail and Google Calendar with the Butterfly **AI Assistant**.

Kintsugi Global, Inc

Full Stack Developer

May 2024 – July 2024

Los Angeles, CA

- Developed and optimized front-end using **React** and Backend with **Java Spring boot**.
- Led backend-frontend integration across **8 projects**, designing **REST APIs** and optimizing workflows.
- Collaborated on architectural improvements, reducing integration time by **30%**.
- Contributed to **design documentation** and peer design sessions.

SecOps Solution

SDE

September 2021 – February 2023

New Castle, DE

- Developed an **ML model** for **security risk** assessment, achieving **89% accuracy**.
- Engineered a **Command Line tool** in **Python** for offline operation in secure environments.
- Optimized backend API performance, improving response times by **60%**.
- Led **full-stack development** in **Angular** and **Java** of business-critical features and **mentored** 4 new hires.

PROJECTS

SynchroDB | *Go, Distributed Systems, gRPC, YAML* | [Project Repository](#)

September 2024 – Present

- Engineered a **distributed key-value database** with fault tolerance.
- Implemented **sharding** and dynamic node management for scalability.
- Achieved **333,000+** operations/second with **0.29ms** average latency and **1.56ms** P99 latency in benchmarks with **100 concurrent clients**.
- Integrated comprehensive **metrics tracking** and **observability tools** for performance monitoring, **bottleneck identification**, and resource optimization across **distributed nodes**.

Rust Kanban | *Rust, Tokio, PostgreSQL, Ratatui* | [Project Repository](#)

October 2022 – Present

- Developed a terminal Kanban board with cloud-save using **Rust**.
- Designed an expandable architecture for future feature modules
- **222 GitHub stars** and **40,000** crates.io downloads.
- Created a **Terminal User Interface** with render times below **400μs (microseconds)**.

TECHNICAL SKILLS

Languages: Java, Python, Rust, Go, JavaScript, Typescript, C++, C#, Lua, SQL

Database: SQLite3, MongoDB, Supabase, Redis, Firebase, PostgreSQL, MySQL, DynamoDB, Apache Hadoop

Technologies: Git, React, Svelte, Node.js, Linux, OpenCV, Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, Tensorflow, Pytorch, Docker, Nginx, REST APIs, NumPy, Pandas, Kubernetes, Angular, Lambda, Jenkins, SciPy, CI/CD

Soft Skills: Leadership, creativity, quick problem solving, teamwork & cooperation, attention to detail, time management, communication skills, adaptability, innovation, Presentation skills, Project coordination, Supervising experience