

# SUNDAR MACHANI

Chicago, IL | 872-281-1848 | [sundarmachani@gmail.com](mailto:sundarmachani@gmail.com) | [LinkedIn](#) | [Portfolio](#) | [GitHub](#)

## WORK EXPERIENCE

---

### Software Engineer (Volunteer)

February 2025 – Present

One Community Global, Remote

- Developed and enhanced features across the Highest Good Network MERN application, resolving 15+ bugs and implementing 5+ features to improve performance, maintainability, and UI responsiveness.
- Designed and implemented the "Weekly Project Summary" dashboard using React and Node.js, building collapsible UI sections and backend endpoints that improved usability and data accuracy.

### Software Engineer

Rakuten Symphony, Bangalore, India

March 2022 – August 2023

- Engineered and maintained five backend microservices utilizing Spring Boot, expertly handling over 1 million orders each month, and bolstered frontend system capabilities through resilient API design.
- Spearheaded database optimization initiative, personally rewriting 15+ slow-running SQL queries and monitoring performance, resulting in a measurable 10% reduction in query execution time.
- Facilitated cross-functional collaboration with frontend engineers to deliver intuitive internal dashboards, enabling data-driven decision-making and reducing reporting time by an average of four hours per week.
- Led Spring Boot upgrade from 2.5.4 to 2.7.5 across microservices, resolving 18 dependency conflicts and improving system security and long-term maintainability.
- Developed and executed a comprehensive JUnit testing suite, comprising over 300 individual tests, improving test coverage from 57% to 87% across critical application modules.
- Led integration of Grafana and Kibana across five core microservices, enabling real-time monitoring and reducing mean time to resolution (MTTR) by 40%, directly improving system uptime.

## EDUCATION

---

Illinois Institute of Technology, Chicago, IL

December 2024

**Master of Science, Computer Science**

Gandhi Institute of Technology and Management, Bangalore, India

June 2021

**Bachelor of Technology, Computer Science and Engineering**

## TECHNICAL PROJECTS

---

### Machani's E- Commerce Platform

January 2024 – February 2025

- Built a scalable e-commerce platform with React and Express/Node, integrating MongoDB, Stripe, and role-based authorization. Created an admin dashboard and deployed via Vercel and Render for high availability.

### Story Vault

December 2024 – January 2025

- Built a full-stack diary app with Spring Boot 3, PostgreSQL, and React.js, achieving 100% test coverage with Mockito and JUnit, and enabling efficient API testing and onboarding with Swagger documentation.

### Secure Bank

November 2023 – December 2023

- Designed and implemented the backend of a secure banking application using Flask and MongoDB, incorporating JWT authentication, encryption protocols, and ACID-compliant transaction processing.

## SKILLS

---

- **Languages:** JavaScript, TypeScript, Java, Python, SQL, HTML, CSS
- **Frontend:** React.js, Tailwind CSS, Bootstrap, Axios, jQuery
- **Backend:** Spring Boot, Node.js, Flask, Express.js
- **Databases:** PostgreSQL, MongoDB, MySQL
- **Cloud & DevOps:** AWS, GCP, Docker, Kubernetes, Vercel, Render, Jenkins, GitHub Actions
- **Testing & Monitoring:** JUnit, Mockito, SonarQube, Grafana, Kibana
- **Tools & Others:** Git, GitHub, Postman, Swagger, Agile, RESTful APIs, Microservices