

# Suraj Iyer

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## EDUCATION

### Master of Science in Computer Science

Indiana University, Bloomington (GPA: 3.74/4)

Aug 2024 – May 2026

Bloomington, IN

- **Coursework:** Software Engineering, Computer Networks, Applied Database Technologies, Applied Algorithms, Applied Machine Learning, Computer Vision

### Bachelor of Engineering in Information Technology

University of Mumbai (GPA: 3.95/4)

Aug 2018 – May 2022

Mumbai, India

- **Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Cloud Computing, Mobile App Development

## EXPERIENCE

### Software Engineer

Merkle

Jun 2022 – Jul 2024

Mumbai, India

- Powered analytics for 500+ survey campaigns monthly by developing well-documented RESTful APIs using Node.js in a multi-cloud environment (AWS/GCP), integrating survey data from SaaS platforms like Qualtrics and Alchemer
- Enabled project managers to make faster, data-driven decisions through live visualizations by building an internal web-based dashboard to track and update real-time progress of market research surveys using React.js
- Supported over 5K+ daily transactions by co-developing microservices architecture-based backend services with scalable relational databases, seamlessly integrating legacy systems with enhanced reliability and query efficiency
- Worked within cross-functional Agile/Scrum teams, participating in code reviews, working closely with project managers for sprint planning, and issue tracking using Jira to support stable and on-time releases.
- Earned a Climb High Award (Oct 2023) for managing end-to-end delivery of 5+ major projects in a quarter, generating revenue equivalent to a 7x return on quarterly compensation.

### Full Stack Developer Intern

Careeristic

May 2021 – Dec 2021

Mumbai, India

- Co-developed a full-stack web application using React, Node.js, Express, MongoDB and AWS (EC2, S3) to assist 20,000+ high school students access career insights through video podcasts and blogs.
- Developed a client-server architecture based Content Management system with scalable database models, secure REST APIs with JSON data handling, and a responsive UI, cutting 80% errors in content updates.
- Collaborated with UI/UX designers and content managers in Agile sprint cycles to build a fully responsive UI along with reusable UI components, and migrated the web application to Next.js, improving page load times by 30%.

## PROJECTS

### Third Eye - AI-Powered Monitoring System | *React, Python, TypeScript, FastAPI*

Sep 2025 - Present

- Built a real-time AI surveillance system using React, FastAPI and Google Gemini API for automated object detection, scene analysis, and tiered alert generation with a response time of 5 seconds or less.
- Built async FastAPI backend processing 4 simultaneous camera feeds with WebSocket streaming and real-time scene analysis using Google Gemini 1.5 Flash API for structured object detection.
- Implemented semantic anomaly detection using ChromaDB vector database and sentence-transformer embeddings to identify deviations from learned behavioral patterns

### Room Reservation System | *Angular, Spring Boot, Docker, Kubernetes, Redis, RabbitMQ*

Oct 2025 - Dec 2025

- Developed a multi-tenancy room reservation system using Java and Spring Boot, implementing 6 micro-services with RESTful APIs, RabbitMQ event-driven architecture, and Redis-based session management
- Designed and built a responsive frontend using Angular with Angular Material, integrating backend APIs and implementing reactive programming with RxJS observables for asynchronous data handling
- Containerized application using Docker and configured CI/CD deployment pipelines for Azure Kubernetes Service with integrated PostgreSQL, Redis, and Service Bus

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, SQL, C, Java, Bash, Golang(Basic)

**Frontend Technologies:** HTML/CSS, React/Next.js, Angular

**Backend Technologies:** Node.js, SpringBoot, FastAPI, JUnit, Mockito

**Cloud & DevOps:** Google Cloud Platform(GCP), AWS(EC2, ECS, S3), GitHub Actions, Docker, Kubernetes

**Databases & Tools:** PostgreSQL, MongoDB, Git, Postman, Jira