

# Ishan Jawade

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## EDUCATION

**California State University, Fullerton** – MS in Computer Science

**Jan 2024 - Dec 2025**

Software Engineering, Operating Systems, Blockchain, Machine Learning, Neural Networks, Databases, Computer Networks

**MIT ADT University Pune** – B. Tech in Computer Science and Engineering

**Aug 2017 - Aug 2021**

Computer Architecture, Data Structures, Algorithms, Object-Oriented Programming, Cloud Computing, Electronic Engineering

## SKILLS

**Languages:** C, Java, Python, JavaScript **Frameworks:** Spring Boot, React.js, Node.js **Databases:** MongoDB, Postgres, MySQL **Tools & OS:** Linux, Microservices, AWS, Jenkins, Docker, Kubernetes, REST APIs, CI/CD **AI/ML:** TensorFlow, Keras, Model Tuning and Training **Others:** ESP32, ATmega328P, Socket Programming

## EXPERIENCE

**MaSyCoDa Solutions – Application Developer Intern**

**Nov 2022 - Aug 2023**

- Developed a finance web application for a US-based MNC using React.js, Java Spring Boot, and MongoDB.
- Optimized performance by reducing load times by 15% through code splitting and lazy loading in React.js.

**Accenture – Application Developer Associate**

**Aug 2021 - Oct 2022**

- Engineered a distributed Java Spring Boot app for an EU-based brewing company, improving modularity and scalability by 25%.
- Elevated system performance by 40% with an efficient notification service integrating Apache Kafka for asynchronous communication.
- Deployed microservices with Jenkins and Docker CI/CD, ensuring more reliable and faster delivery times.

## PROJECTS

**HIPAA-Compliant Medical & E-Commerce Data Management System** (College Hackathon)

- Made a full-stack web application using React.js, Java Spring Boot, and MongoDB to securely manage hospital patient data and support e-commerce functionality for tech product sales.
- Deployed on AWS (EC2, S3, RDS) with auto-scaling and load balancing, ensuring 99.9% uptime.
- Integrated Redis caching, reducing latency by 500ms and significantly improving user experience.
- Implemented AES encryption for secure file sharing, leading to an 80% reduction in data leak incidents.
- Integrated AWS CloudWatch audit logging with real-time alerts and automated monitoring, reducing unauthorized access incidents by 40% and ensuring HIPAA compliance.

**Gemini-Mate**

- Built Gemini-Mate, an automated learning aid using React.js and Google Gemini AI, reducing student study time by 10 hours weekly through intelligent visualization tools.
- Boosted student engagement by 35% by integrating features such as flashcard creation, mind maps, road map visualizers, and personalized learning paths.
- Improved teaching efficiency by 8 hours weekly by automating lesson preparation and providing tailored learning experiences.

**Embedded Systems & IoT-Based Smart Home Automation**

- Developed embedded applications on ATmega328P, combining bare-metal programming.
- Implemented GPIO register control and automated firmware flashing via avr-gcc, avrdude, and Make files on ATmega328P.
- Wrote an ESP32-based Wi-Fi home automation system with a browser-accessible web server and UART communication to Raspberry Pi.
- Created a Flask-based dashboard for real-time monitoring, integrating a DHT11 sensor for temperature and humidity tracking.
- Debugged hardware/software issues and optimized device communication for improved reliability and performance.

## ACHIEVEMENTS & PUBLICATIONS

- 1st prize at the National Smart India Hackathon, 2019, conducted by the Gov. of India.
- Shortlisted for startup pre-incubation at the National Innovation Contest, 2020, held by the Gov. of India. ([Link](#))
- PairNet: A Deep Learning Based Object Detection and Segmentation System. ([Link](#))