

Pritam Mondal

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EDUCATION

B.Tech in Computer Science and Engineering, Brainware University - Kolkata, India

CGPA: 8.65 / 10.0

Jul. 2019 – Aug. 2023

WORK EXPERIENCE

1. Qicpic Innovations Pvt. Ltd., Bengaluru, India

Full Stack Developer

Dec. 2024 – May. 2025.

- Engineered a high-performance **product Search API** with intelligent **L3-L2-L1** product category prioritization; optimized SQL queries to **reduce response time under 500 ms**, boosting user experience.
- Built a 5 km radius **store locator API** using geolocation, a custom **bucket sort** with Sequelize, and achieving sub-millisecond response times, and used Redis to minimize database hits.
- Developed **Cart and Wishlist APIs** that integrated session-based pricing, **real-time stock checks**, and user-specific updates, improving customer engagement and transaction efficiency.
- Integrated **Razorpay payment gateway**, automated invoice generation, and **webhook handling**, improving payment accuracy by over 50%.
- Created a distributor **onboarding dashboard** with React and Context API, complete with automated tests, **Docker deployment**, and **AWS S3** file uploads.

2. Masai School, Remote

Software Engineer Intern

May. 2024 – Dec. 2024

- Deployed 5+ scalable **full-stack** web applications in **Agile** teams; built **responsive UIs** and contributed to **code reviews**.
- Built a responsive **personal finance tracker** with **CSV import/export**, **Firestore Auth**, and real-time syncing; ensured cross-browser compatibility and **visualizing data** using Chart.js. [[GitHub Repository](#)]

PROJECTS

1. AI-Powered Smart Farming Platform

Guide: [GitHub Repository](#)

May. 2025 – Present.

Tech used: FastAPI, TensorFlow, Angular, Node.js, Express, PostgreSQL, Sequelize, Tailwind, Vercel, Nodemailer

- Built an AI microservice in **FastAPI** (Dockerized) for plant disease detection and yield prediction (ONNX stub).
- Trained a **TensorFlow** CNN on 55K+ images, converted to **TFLite** (~ 89% accuracy) for real-time inference.
- Developed a secure backend in **Node.js**/Express with JWT+OTP auth, PostgreSQL, and IP rate limiting.
- Built a responsive **Angular 17** + **Tailwind** frontend with drag-and-drop upload, reactive signals, and lazy-loaded routes.

2. Event Management Software

Guide: [GitHub Repository](#) — [Live Preview](#)

Jun. 2025 – Present.

Tech used: Node.js, Express, PostgreSQL, React, Axios, React Router, Railway, Netlify

- Improved event approval speed by 60% by building full **CRUD workflows** (Employee → CMO → CEO), with **JWT+Session auth**, email alerts via **NodeMailer**, and post-event feedback collection using **node-cron**.
- Designed **role-based access control** dashboard in React with permission controls, enabling a secure personalized view.

3. Nutrition Management (Nutrition Tracker SaaS)

Guide: [GitHub Repository](#)

Jan. 2025 – Present.

- Designed a scalable backend with 30+ REST APIs to process and normalize over **1M USDA food records**.
- Implemented a modular nutrition **recommendation engine** using service/controller architecture, integrating user metrics to generate personalized meal plans dynamically.

SKILLS & TECHNOLOGY

I. Programming Languages: JavaScript (ES6), Python, TypeScript, Go, SQL

II. Frameworks & Technologies:

- Frontend:** React.js, Angular, TailwindCSS, Redux, HTML, CSS, Next.js, Web design & Architecture;
- Backend:** Node.js, Express.js, REST APIs, Microservices, WebSocket, Kafka, Go, Gin, Distributed Systems;
- Databases, DevOps & Cloud:** PostgreSQL, MongoDB, MySQL, Docker, AWS, Azure, Redis, Sequelize, GORM;

III. Tools & Platforms: Git & GitHub, Postman, VS Code, Debugging Tools

IV. CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming (OOPs), Complexity Analysis, SQL & NoSQL, Machine Learning, Deep Learning, Neural Networks, and Discrete Mathematics

V. Soft Skills: Leadership, Communication skills, Project management, Problem Solving, Adaptability, Time Management

CERTIFICATES & ACHIEVEMENTS

- Completed **Angular Developer Training** at WebGuru Infosystems, Kolkata – built real-time SPAs using Angular 12+.
- Completed Masai School's Full-Stack MERN program, gaining hands-on experience in backend APIs and system design.
- Solved **500+ coding challenges** across [LeetCode](#) and other platforms, with strong algorithmic **problem-solving skills**.
- My portfolio link: pritam-m-portfolio.netlify.app