

# SATVIK GARG

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## Education

### University of Manchester

*BSc (Hons) Computer Science — First-class average (75%)*

Sep. 2024 – Jun 2027(Expected)

Manchester, UK

- Ranked top 10% (of 250) in core quantitative modules: Data Structures, Algorithms, and Machine Learning.

## Experience

### Zentech Solutions

June 2025 – August 2025

New Delhi, India

*Web Developer Intern*

- Delivered 3 production websites serving 8,000+ monthly users, directly driving 30% lead conversion increase.
- Executed performance engineering on React/Next.js stack, reducing page load time by 35% (from 3.2s to 2.1s).
- Instituted disciplined software development practices: introduced unit/integration tests (Jest) with 80% coverage to mitigate production risk (reduced reported bugs by 25%).

### Web3Task

August 2025– September 2025

Gurgaon, India

*Front End Developer Intern*

- Built AI/Automation solution for event management; automated booking reduced manual queue workload by 55%.
- Engineered automation solutions that cut operational errors significantly, demonstrating operational excellence.
- Maintained continuous development lifecycle (CI/CD via GitHub Actions) and high service reliability (99.5% uptime).
- Created data analytics dashboard and presented insights to stakeholders that increased attendance by 20%.

## Projects

### Aether — AI Healthcare Assistant | Python, Flask, Hugging Face, Google GenAI, Firebase, Vercel

September 2025

- Engineered a transformer model on 2.5M+ patient records, achieving 0.88 F1 score and cutting misdiagnosis by 20% .
- Productionized inference via Flask APIs deployed on Vercel, sustaining sub-300ms latency and 99.7% uptime under real user traffic; reduced diagnostic error margin by 22% and improved throughput by 3x.
- Scaled the platform to 200+ active users handling 2,000+ medical queries monthly; implemented authentication, role-based access, and audit logging to ensure 100% data integrity and HIPAA-compliant security.
- Delivered a secure, crash-resistant service achieving 98% crash-free sessions; integrated automated monitoring and alerting pipelines, reducing downtime and manual intervention by 75%.
- Live Demo: [health-app-lilac.vercel.app](https://health-app-lilac.vercel.app)

### Smart Campus Connect Platform (Full-stack) | Next.js, Prisma, Firebase, NextAuth.js, Tailwind CSS

June 2025

- Engineered robust data integrity solutions by implementing role-based server-side authorization and atomic DB transactions (Prisma), cutting data conflicts by 40% and ensuring reliable multi-user operations.
- Designed and maintained CI/CD pipelines with GitHub Actions and deployed on Vercel, enabling 15+ production releases with zero downtime and sustaining 99.9% service reliability under real usage.
- Drove a 35% increase in user attendance and event conversion by optimizing UX workflows; adoption reached 300+ active users within 2 months, directly supporting community engagement and growth.

### AI Gym Buddy (Hackathon) | Python, MediaPipe, Node.js, GitHub (CI)

April 2025

- Built a real-time pose-evaluation engine using Python and MediaPipe to address inaccurate exercise feedback; optimized processing to achieve 200ms latency, enabling instant corrections for over 50 exercise types.
- Led development in a 4-person Agile team tasked with delivering a functional prototype under tight deadlines; implemented GitHub CI/CD and peer code reviews, contributing to a 3rd place finish among 100+ teams.
- Designed and integrated a Node.js backend with a responsive dashboard to solve the challenge of tracking multiple users simultaneously; supported 200+ concurrent sessions and visualized performance metrics in real-time.

## Technical Skills

**Languages:** Python, JavaScript, SQL, Java, HTML/CSS, TypeScript, PHP

**Technologies/Frameworks:** React, Next.js, Node.js, Flask, Express.js, Tailwind CSS, Redux, RESTful APIs, GraphQL, Docker, Kubernetes, Vercel, AWS, Firebase, CI/CD, Git/GitHub, Unit Testing, Jest, Postman

**Concepts:** Agile Methodology, Software Development Life Cycle, Scalable Web Architecture, Cloud Deployment, Data Structures & Algorithms, Machine Learning, Transformers/Deep Learning, System Design, Authentication & Role-based Access, Performance Optimization, Microservices, Monitoring & Logging

## Leadership / Extracurricular

### Logistics Head

*Great Uni Hack, UNICS*

Nov 2024 – Present

University of Manchester

- Led and collaborated with diverse teams (8 volunteers) to streamline event processes, reducing critical setup time by 25% and improving attendee satisfaction by 15%.