

SHUBHAM SONI

Pune, India | 📞 +91 9032656530 | ✉ shubhamsoni1905@gmail.com

🌐 [Portfolio](#) | [in shubhamsoni](#) | [whoevenisshubham](#)



Education

Vishwakarma Institute of Technology, Pune

2023 – Expected 2027

B.Tech. in Computer Science (Artificial Intelligence & Machine Learning) | **CGPA: 9.1/10**

SNBP's International School, Pune

2021 – 2023

CBSE Class 12: PCM + Computer Science | **85.6%**

Vidya Pratishthan's Magarpatta City Public School, Pune

2008 – 2021

ICSE Class 10 | **95.4%**

Projects

TransactX – Distributed Payment Reliability & Operations Platform 🔗

2026

Go, PostgreSQL, React, TypeScript, REST/HTTP, SSE, IndexedDB, SHA-256/Merkle Trees, GitHub Actions

- Built Go payment APIs with JWT/RBAC, double-entry PostgreSQL ledgers, idempotency, and durable sagas for retry-safe settlement across independently owned simulated bank services
- Implemented health-aware routing, circuit breakers, and chaos testing; achieved **297/300 versus 200/300** successful requests with static routing during a controlled bank outage
- Developed Merkle reconciliation, proof verification, and financial-integrity checks with **10K/100K-record** experiments; built React role-based UIs, offline replay, SSE updates, and PostgreSQL-backed test CI
- Developing autonomous recovery, OpenTelemetry observability, transactional outbox with idempotent projections, and a read-only LLM/RAG investigator grounded in payment evidence and runbooks

CliniQ+ – AI Clinical Healthcare Portal 🔗

2026

Next.js, TypeScript, Llama 3 (Groq), Deepgram, WebSockets, Supabase, MongoDB

- Implemented a real-time voice-to-EMR pipeline using Deepgram and Llama 3, achieving sub-300ms transcription latency, clinical entity extraction, and automated ICD-10 medical mapping
- Built a WebSocket streaming pipeline to process ambient clinical audio and display live transcriptions on the practitioner dashboard
- Integrated Next.js and Supabase to generate structured clinical records and automated medical summaries, reducing manual consultation documentation

Technical Skills

Languages: Java, Go, Python, C++, C, JavaScript, TypeScript, SQL

Web & APIs: React, Next.js, Node.js, Express.js, Spring Boot, REST APIs, JSON, JWT, WebSockets

Databases: PostgreSQL, MySQL, MongoDB, Supabase

Tools & AI: Git, GitHub Actions, CI/CD, Docker, Linux, LLM integration, Groq, Deepgram

Core CS: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks, System Design

Achievements

- **Competitive programming:** [LeetCode: 1880 \(Knight\)](#) | [Codeforces: 1365 \(Pupil\)](#) | [CodeChef: 1674 \(3-star\)](#); solved 1300+ problems across 150+ contests
- **MVPM National Hackathon 2026:** Overall team winner among 100+ teams with CliniQ+; finalist at Cavista and Symbiosis Skill Hackathons 🔗
- **Internal Smart India Hackathon 2025, VIT Pune:** Winner among 1000+ internal teams 🔗
- **Industry projects:** Completed AI sports analytics for Passion Infotech and industrial cyber-defense research for Ram Antivirus as academic industry projects

Publications & Certification

IEEE INSECT 2026 (May) – Sports Analytics with Optimized Agentic Two Pass Approach Using Multi-Modal Data 🔗

IEEE ICoECIT 2026 (Jan) – A Modular IoT Framework for Water Quality Monitoring with Bi-Directional LSTM Predictive Analytics 🔗

IEEE ASIANCON 2025 (Aug) – An Intelligent Real-Time Drowsiness Detection System Using Computer Vision And Facial Landmark Analysis For Enhanced Road Safety 🔗

Google Data Analytics Professional Certificate 🔗 – Coursera | SQL, Python, Tableau

Apr 2026

Leadership & Volunteering

VIT Pune MUN – Research Head & Director, Wassenaar Arrangement 🔗

Led research, wrote delegate guides, interviewed dignitaries, and coordinated sponsorship outreach

Presided over Executive Board proceedings and coordinated committee operations during conferences

VIT Social Welfare & Development – Go Green Volunteer 🔗

Contributed to tree plantation and city cleanup drives; mobilized volunteers for sustainability initiatives