

Mandar Rajendra Kelkar

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Portfolio | 📍 Pune, Maharashtra-411046 , India

About

Self-motivated and diligent BTech student with a strong software development and database management foundation. Proficient in Python, Java, and C, with hands-on experience in building and deploying robust applications using Flask, React, and Node.js. Additionally, I have participated in and won 4+ hackathons, demonstrating strong teamwork and technical innovation in competitive environments.

Education

B.Tech (Computer Engineering) – 2023–2026	8.03 CGPA
Vishwakarma University	
Diploma (Computer Engineering) – 2021–2023	82.57%
Government Polytechnic Malvan	
SSC – 2018–2020	88.20%
Jay Ganesh English Medium School	

Skill Set

Programming Languages: C, Java, Python, JavaScript, Solidity
Web Technologies: HTML, CSS, Bootstrap, Tailwind CSS, jQuery, JSON, RESTful APIs
Frameworks: React, Flask, Django, Angular, NodeJS
Databases: MySQL, PostgreSQL, SQLite, MongoDB
Tools: VSCode, PyCharm, Eclipse, Jira, GitHub
Operating Systems: Windows, Linux
Soft Skills: Communication, Teamwork, Problem-Solving, Adaptability, Time-Management, Work Ethic
Languages: English, Marathi, Hindi

Projects

- **Multi-Factor Authentication System** — [LINK](#)
Technologies: Flask, SQLite, PostgreSQL, Python, Virtualenv, SMTP, GitHub
 - Created a Multifactor Authentication (MFA) system using Flask, reducing unauthorized access incidents by 45%.
 - Secure Access Control: Ensured that only authenticated users with valid credentials can access specific pages or functionalities.
 - Password Management: Enforced password complexity, implemented hashing and salting, and enforced periodic password changes.
 - User Authentication: Integrated MFA methods (SMS codes, admin authorization, OTPs) in addition to username/password.
- **TelemedeX** — [LINK](#)
Technologies: React.js, Tailwind CSS, Node.js, Express, MongoDB, Google Fit API, Razorpay API, Gemini API, TensorFlow, GitHub
 - Intelligent scheduling prioritizes patients according to urgency and doctor availability.
 - Prescription summary and alternative medicine suggestions based on AI with cost-effective recommendations.
 - Google Fit integration provides real-time wearable health data insights.
 - Secure Razorpay-powered payment gateway for hassle-free transactions.

- **Blockchain-Based Academic Credential Storage and Issuing System** — [LINK](#)
Technologies: Vite, Tailwind CSS, SCSS, Solidity, Express, TypeScript, MongoDB, Ganache, Truffle, MetaMask, Sepolia, GitHub
 - Secured student enrollment, semester progress, and degree issuance using blockchain technology.
 - Eliminated credential forgery by up to 60% with automated digital certificate issuance and verification.
 - Enabled instant, verified academic record retrieval via a blockchain network.
 - Facilitated global verification for employers and institutions, reducing manual validation efforts.
- **DataHive Student Leaving Certificate Generation and Management System** — [LINK](#)
Technologies: Python, Flask, HTML5, SCSS, PyPDF, SQLite, PostgreSQL, Render, GitHub
 - Automated data collection from academic records, attendance, and registration forms, reducing administrative workload by 70%.
 - Intelligent processing to compute grades, attendance, and eligibility for certificates.
 - Dynamic certificate generation ensuring compliance with institutional formats.
 - Robust user management with authentication, role-based access, and activity logging.

Awards

- **NSD Hackathon 2025 (Winner)**
Organized by VU & Teklingo, with participation from 45+ teams. Secured first place in the Design and Web Development domain by developing a pet adoption website within the given time. Also achieved second place in the Machine Learning domain by implementing a network traffic anomaly detection system using the KNN algorithm with an accuracy of 80%. Technologies used: React, Node.js, Express, Flask, Matplotlib, Scikit-learn.
- **Visionary Techfeast 2023 (Winner)**
Conducted by the Visionary Club at VU, where 30+ teams participated. Won first place in the cybersecurity domain by developing a robust multi-factor authentication system that integrated OTP verification via Twilio and email authentication using Python and Flask.
- **REX 2023 (Winner)**
A prestigious national-level research and project exhibition competition organized by MITM College. Secured first place with the DataHive project, which automated the generation of leaving certificates. Technologies utilized: Flask, SQLite, Vue.js, PostgreSQL, Render.

Certificates

- **Coursera: Introduction to Blockchain Specialization** 3-course specialization covering blockchain fundamentals, decentralized ledger architecture, and smart contract basics.
- **Coursera: Fundamentals of Computer Network Security Specialization** 4-course specialization covering network vulnerabilities, threat mitigation, cryptographic protocols, and secure network design.
- **Coursera (IBM): IT Fundamentals for Cybersecurity Specialization** 4-course specialization covering cybersecurity basics, security policies, network security, and risk management.
- **Udemy: The Web Developer Bootcamp Certification** 60-hour course covering MERN stack
- **Udemy: The Modern Python 3 Bootcamp Certification** 30-hour course on Python 3 and Web Scraping.

Extracurricular Activities & Volunteer Work

Volunteer, Blood Donation Camp Vishwakarma University	Oct 2023
Participant, Anti-Corruption Rally Vishwakarma University	Oct 2023
Web3 Lead, HICA VU Club – Organized Cybersecurity workshops and hackathons	March 2025 – Present