

OMKAR PATEL

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PROFILE

UI/UX Designer & Full Stack Developer with strong foundations in Figma, responsive web development, and object-oriented programming. Experienced in building user-centric web applications with clean design systems, real backend logic, and API integrations. Familiar with Python-based AI/ML workflows and geospatial data pipelines. A fast learner eager to contribute to live products, collaborate cross-functionally, and grow through hands-on mentorship — exactly what this internship offers.

EDUCATION

- MIT World Peace University (MIT-WPU), Pune** Jun 2023 – Present
B.Tech in Computer Science Engineering (Cybersecurity) CGPA: 7.74
- Achievement: SIH (Smart India Hackathon) 2nd Round Qualifier
- O.P. Jindal School, Raigarh, Chhattisgarh** Mar 2008 – Jun 2022
10th: 68.8% 12th: 67.8%

TECHNICAL SKILLS

Design / UI-UX: Figma, Wireframing, Prototyping, Design Systems, Responsive UI Design, User Flows, Accessibility
Frontend: HTML, CSS, JavaScript (ES6+), React.js (Basic)
Backend: Node.js, Express.js, Flask, REST APIs
OOP & Languages: Python, C++, JavaScript — strong grasp of OOP, SOLID principles, encapsulation, inheritance
AI / ML: Scikit-learn, Pandas, Regression Modelling, HMAC-SHA256, MQTT Protocol
Databases: MySQL, MongoDB, SQLite
Geospatial / Mapping: Geospatial data concepts, location-based UI design, map-integrated frontend awareness
Version Control: Git, GitHub
Core Concepts: Data Structures & Algorithms, Problem Solving, Agile Collaboration

PROJECTS

- Web-Based Image Encryption Tool** | *HTML, CSS, JavaScript, Python* Apr 2025 – May 2025
- Role: Lead Developer & UX Designer** — Designed full UI/UX in Figma before implementation; applied design system principles for consistent component styling and visual hierarchy.
 - Built a fully responsive, accessible web application for image encryption and decryption — end-to-end full stack thinking with a user-first design approach.
 - Implemented OOP-structured backend encryption/decryption logic in Python and integrated it with a clean, interactive frontend.
 - Reduced manual encryption time by 60% through optimised processing pipelines and real-time user feedback loops.
 - Delivered pixel-perfect, mobile-responsive UI with clear visual affordances — directly mirrors HERE's design quality standards.
- PUF-Based IoT Authentication System** | *ESP32, Python, Flask, HMAC-SHA256, MQTT* Aug 2025 – Oct 2025
- Role: Lead Developer** — Architected the system using OOP design patterns; clearly separated concerns between hardware interface, authentication logic, and API layer.
 - Built a RESTful Flask backend with HMAC-SHA256 cryptographic authentication and MQTT messaging, achieving 100% authentication accuracy.
 - Demonstrated ability to build agentic-style pipelines: sensor input → secure identity verification → authenticated response — conceptually aligned with HERE's Agentic AI & Map Intelligence role.
 - Collaborated across hardware (ESP32) and software layers — reinforces cross-functional, full-stack working style.
- AI-Based Carbon Emission Calculator** | *Python, Scikit-learn, Pandas* Aug 2025 – Oct 2025
- Role: UX Designer & Data Engineer** — Designed all user-facing input flows and interface wireframes; translated user research insights into data collection form structure.
 - Performed feature engineering and data preprocessing on geospatial and environmental datasets — relevant to HERE's location-based data intelligence workflows.
 - Built regression model achieving R^2 score of 0.87; clearly communicated prediction outputs through a clean, non-technical UI.

COMPETITIVE PROGRAMMING

Codeforces — Active problem solver with consistent practice in Data Structures, Algorithms, and OOP-based problem decomposition; strong debugging and analytical skills under time constraints.

ACHIEVEMENTS & ACTIVITIES

SIH 2nd Round Qualifier — Selected through a competitive national-level hackathon at MIT-WPU; delivered a working prototype under a 36-hour deadline.

PowerPoint Presentation Leader at O.P. Jindal School — experience communicating technical ideas clearly to non-technical audiences.

SOFT SKILLS

Communication · Team Collaboration · Adaptability · Time Management · Analytical Thinking · Problem Solving

Available for Hybrid Internship (Remote + On-site as required) · Immediate Joiner