

# ANSH MANISHKUMAR SONI

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## EDUCATION

**Pandit Deendayal Energy University (PDEU)**, Gandhinagar, Gujarat July 2023 – May 2027  
Bachelor of Technology in Computer Engineering | Minor: Internet of Things (IoT) | **CGPA: 9.48/10.0**  
*Reliance Foundation Undergraduate Scholarship Recipient (2023–2027)*

## TECHNICAL SKILLS

**Programming Languages:** Python, C++, JavaScript, SQL  
**Backend Development:** FastAPI, Flask, Microservices Architecture  
**Databases:** PostgreSQL, MySQL  
**Frontend Technologies:** HTML5, CSS3, Tailwind CSS, JavaScript, Responsive Design  
**Testing & Quality:** Unit Testing, Pytest, Postman, API Testing  
**DevOps & Tools:** Docker, Git, GitHub, Linux, Grafana  
**IoT Technologies:** Arduino, Sensor Integration, MQTT Protocol

## PROFESSIONAL EXPERIENCE

**Backend Development Intern** | StromDrive Private Limited Dec 2025 – Present

- Developing secure backend subsystems for cloud storage platform using FastAPI, PostgreSQL, and Python with focus on scalability and security best practices
- Built Online Notepad application implementing JWT authentication, CSRF protection, and rate limiting to prevent unauthorized access and abuse
- Designing encrypted cloud storage backend with AES-256 encryption and secure file handling mechanisms
- Implementing IP intelligence-based detection system to identify and block VPN/Proxy/Tor connections for fraud prevention with comprehensive Pytest test suite for validation

## TECHNICAL PROJECTS

**Request For Proposals (RFP) Processing System** | FastAPI, PostgreSQL, Gemini AI | [GitHub](#) Dec 2025

- Designed backend system with AI-powered automation for RFP document processing and analysis using Gemini API
- Implemented requirement extraction, SKU matching, and pricing estimation features with API endpoints
- Built asynchronous task processing pipeline to handle multiple RFP documents concurrently

**Databoard.ai** | FastAPI, PostgreSQL, AI Analytics | [GitHub](#) Jan 2026

- Architected backend for AI-powered analytics platform with automated data ingestion, forecasting, and reporting
- Integrated AI models for predictive analytics enabling non-technical users to extract insights from large datasets
- Designed API with PostgreSQL database optimization for efficient data retrieval and processing

**GraphTK - Python Graph Toolkit** | Python, PyPI Package | [PyPI](#) Oct 2024

- Published open-source Python library for graph data structures and pathfinding algorithms (Dijkstra, BFS, DFS)
- Designed using Facade Design Pattern and OOP principles with comprehensive documentation and unit tests
- Validated by 10+ experts with positive community feedback and contributions

**PyShell Command Line Interface** | Python | [GitHub](#) Dec 2024

- Developed custom CLI tool for system interaction, automation, and file management with 20+ built-in commands
- Designed modular command execution architecture with optimized subprocess handling and error management

**RFID-Based Smart Attendance System** | Arduino UNO, RFID-RC522, LCD I2C | [GitHub](#) Apr 2024

- Built IoT attendance system using Arduino UNO and RFID-RC522 module with real-time card authentication
- Implemented LCD I2C interface to display user UID, date, and time information upon successful card scan
- Designed modular code structure with MFRC522 library integration for efficient RFID communication

## ACHIEVEMENTS & HONORS

- Zonal Finalist, NASA Space Apps Challenge 2025, Nirma University
- Contributed 1,000+ commits to open-source projects on GitHub in 2025, including bug fixes and feature development
- Research Poster Accepted: "Modeling Cold War Geopolitics with Quantum Prisoners Dilemma" at Indo Quantum Summit 2026
- Achieved 5-Star Rating in Python on HackerRank
- Awarded Silver Certification in NPTEL "Human Computer Interaction (HCI)" course by IIT Delhi
- Received Excellence Award in Co-curricular Activities by Pandit Deendayal Energy University