

DEEPAK SONI

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Education

University of Petroleum and Energy Studies, Dehradun

2024 - 2028

B.Tech in Computer Science & Engineering

Work Experience

Backend Engineer Intern

Jun 2025 – Jul 2025

FeinAI

Remote

- Built a modular backend using **Flask**, **MongoDB**, **PostgreSQL**, and **SQLAlchemy**, developing secure **REST APIs** with authentication, validation, and CORS protection
- Collaborated with frontend and AI/ML teams to integrate APIs and streamline data exchange across application components
- Deployed applications on **AWS EC2** using **Gunicorn**, **Nginx**, and **TLS**, while automating infrastructure and CI/CD with **Terraform** and **GitHub Actions**

Open-Source Maintainer

Jun 2023 – May 2024

Python Package Index (PyPI)

Remote

- Maintained 3 open-source Python packages for Instagram, GPT-3.5, and Google Search APIs, achieving **180,000+ downloads** on PyPI and **500+ GitHub stars**
- Resolved **50+ issues**, reviewed and merged **20+ pull requests**, and collaborated with contributors across the Python open-source community
- Managed a **300+ member** Discord community, providing technical support and coordinating community contributions
- Developed features involving **API integrations**, reverse engineering, session management, error handling, and package maintenance

Projects

EncGit – Encrypted Version Control System using AES-256 Written in Java

[Source Code](#)

- Built a **Git-inspired encrypted version control system** in Java, implementing **content-addressable object storage**, deterministic object addressing, and CLI-driven repository management
- Developed core **VCS workflows** including staging, commits, object persistence, and repository inspection to replicate fundamental Git mechanics
- Implemented **SHA-256 object hashing** and **zlib compression** for efficient storage, integrity verification, and retrieval of repository objects
- Secured all repository objects and metadata using **AES-256 encryption** with automated key generation and transparent encryption/decryption during I/O operations

Ensta – Python API Wrapper for Instagram Automation

[Source Code](#)

- Developed **Ensta**, a Python SDK for Instagram automation by **reverse engineering private Mobile and Web APIs**, providing a developer-friendly interface for authenticated and anonymous interactions
- Implemented features including **authentication**, **session management**, **profile retrieval**, **follower extraction**, **direct messaging**, **media uploads**, and account customization workflows
- Designed structured Python objects, API abstractions, and **HTTP/SOCKS proxy support** to simplify integration and improve reliability across automation workflows
- Published the package to **PyPI**, achieving **150,000+ downloads** and adoption by developers building Instagram automation tools and bots

Technical Skills

Languages: Java, Python, JavaScript, SQL, C

Backend & Databases: Flask, FastAPI, Django, Node.js, REST APIs, PostgreSQL, MongoDB

Cloud & DevOps: AWS, Docker, GitHub Actions, CI/CD, Linux, Nginx

CS Fundamentals: API Design, Data Structures & Algorithms, Operating Systems, Computer Networks, DBMS, OOP

Security & Collaboration: JWT, Session-Based Authentication, TLS/SSL, Git, GitHub

Achievements/Positions of Responsibility

- Appointed as the **Technical Head** of *IEEE Computer Society* student chapter during 2025-26 tenure at UPES
- Mentored **Askage** during *Open Summer of Code 2025*, reviewing and merging **30+ PRs**
- Mentored **70+ students** in React Native at Microsoft Technical Community, UPES
- Secured the **Most Innovative Project** title during the *Code Hustle 10.0* hackathon at UPES