

## SHIKHAR PANDEY

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**GitHub:** [github.com/shikharpa](https://github.com/shikharpa) | **Portfolio:** [sankrityayan.vercel.app](https://sankrityayan.vercel.app)

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Dynamic and versatile Full Stack Developer with expertise in designing intuitive user experiences, optimizing backend systems, and analysing large datasets. Adept at crafting scalable SaaS solutions and implementing robust role-based access controls. Proficient in fostering collaboration across teams and delivering high-quality, impactful solutions. Passionate about solving complex problems and engaging in cross-disciplinary discussions, blending technical acumen with an analytical mind set.

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## SKILLS

**Programming Languages:** Python (Primary), JavaScript, SQL, HTML, CSS

**Frameworks and Libraries:** Django, Next.js, React.js, Tailwind CSS

**Databases:** PostgreSQL, Oracle, GraphQL

**DevOps & Containerization Tools:** Docker, Kubernetes, Nginx, AWS (S3, Lambda)

**Data Analysis and Testing Tools:** Pandas, NumPy, Matplotlib, Selenium

**Data Integration and Analytics Platform:** Splunk, Palantir

**GenAI:** OpenAI Python, Prompt Engineering, RAG (Retrieval-Augmented Generation)

**Core Skills:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Version Control (Git/GitHub)

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## EXPERIENCE

### TeachEdison | Software Developer

*Jan 2024 – Present | Coimbatore, India*

- **OpenAPI Integration for SaaS:** Designed and developed OpenAPI integration for the SaaS platform to enhance functionality, including user data storage and Retrieval-Augmented Generation (RAG) for customized GPT responses.
- **OAuth Authentication System:** Built a secure authentication mechanism using Django REST framework, enabling integration with GitHub and Google logins.
- **Role-Based Access Control:** Architected and wrote a Django REST app for granular permissions and flexible user management.
- **Authentication Microservice:** Created a dedicated microservice with dual-database support for authentication, boosting system performance and reliability.
- **Collaborative Object Access:** Implemented object-sharing features with role-based admin control to enhance team collaboration.

### Capgemini | Senior Analyst

*July 2019 – May 2021 | Bengaluru, India*

- Streamlined SPL queries in Splunk to improve data processing and indexing for transaction log files.
- Built interactive dashboards using XML and JavaScript for visualizing transaction patterns.
- Automated testing workflows using Selenium, ensuring robust product reliability.
- Analysed large datasets by processing PostgreSQL data with Python and Pandas for dynamic inspection dashboards.

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## EDUCATION

**National Institute of Technology Patna**

*B. Tech in Mechanical Engineering / 2015 – 2019*

*College Summer Internship: North East Railway / May – June 2018*

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## PERSONAL PROJECTS

### **Kalvi**

<https://www.kalvi.co>

- Building an open-source infrastructure for online education. Designing features like course creation, mock tests, and community building to enable quick deployment of educational platforms.