

Sambhav Soni

Software Engineer | Backend Systems

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SUMMARY

Backend Software Engineer with ~1.5 years of experience building APIs, automation pipelines, and data-driven systems using Python and PostgreSQL. Known for translating ambiguous business requirements into production-ready software.

SKILLS

Languages: Python

Backend: Flask, REST APIs, JWT Authentication, FastAPI

Data: PostgreSQL, MySQL

Devops: AWS (EC2, ECR, CloudWatch), Docker, Azure

EXPERIENCE

Software Engineer — [Compunnel Inc](#)

July 2024 – Present

- Led backend development of Market Minder **serving 100+ users**, including a late-stage mass mailing system.
- Designed and implemented an **event-driven follow-up engine** triggering automated email workflows based on user engagement data.
- Built analytics endpoints using **webhook data** to power engagement tracking and reporting.
- Implemented **role-based access control (RBAC)** and **user-scoped data visibility** to enforce secure multi-tenant behavior.
- Implemented **JWT-based authentication** and secure onboarding flows including password creation and reset.
- Delivered **email scheduling infrastructure** supporting automated campaign execution.

Digital And Technological Specialist — [NCR INFRA](#)

June 2023 – July 2024

- **Streamlined operations** through automation and maintained CRM database to optimize targeted outreach.
- **Led digital growth** via SEO, social media strategy, and web admin to enhance brand visibility and engagement.

Networking Intern — [Efkon India Pvt Ltd](#)

May 2022 – Aug 2022

- Supported deployment of large-scale smart city traffic networks.

PROJECTS

[SmuggyConverter](#) — Desktop Media Processing System

- Built to solve the **absence of reliable tools** for large-scale playlist processing, where existing solutions were fragmented, paid, or operationally inconsistent.
- Built a cross-platform desktop application with a **Python** backend orchestrating playlist ingestion and media processing workflows.
- Engineered resilient download pipelines with batching and failure-handling to support large media transfers.
- Improved request handling to increase reliability when processing large playlist downloads.

[Emotion Detection using AI](#)

- Developed a real-time emotion detection system using **Convolutional Neural Networks (CNN)** to classify facial expressions into seven categories (e.g., Happy, Sad, Angry) using the **FER 2013** dataset.
- Integrated **OpenCV** and **Haar Cascade** classifiers to perform face detection in live video streams, enabling dynamic sentiment analysis with a **Python**-based backend.
- Processed and normalized 48 x 48 pixel grayscale images through a **Keras/TensorFlow** pipeline to optimize model accuracy and real-time inference speed.

EDUCATION

Bachelor of Computer Applications (BCA) - [Amity University, Noida](#)

Sep 2020 – June 2023

- **First Division**
- Developed a **Python** clustering model analyzing socio-economic factors influencing voting patterns.