

SAIKIRAN GANDLA

Python Developer | Computer Vision & AI Automation Engineer

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Summary

Software Engineer with 4 years of experience in Python development, Computer Vision, AI automation, backend application development, and data processing pipelines. Experienced in designing and developing scalable Python-based solutions for enterprise-scale client portals, workflow orchestration, data annotation platforms, and cloud storage integrations. Skilled in researching and evaluating open-source Computer Vision models, integrating pre-trained models into Python-based image and video inference pipelines, and building automated workflows for preprocessing, model inference, post-processing, and annotation generation. Proficient in REST/gRPC API integrations, automation, video/image processing, cloud platforms, and workflow optimization, with a strong focus on system reliability, performance, scalability, and maintainable software design.

Professional Work Experience

Software Development Associate
Skelia Technologies, Pune (July 2024 -- Present)

Project: CV Robotics-Physical AI (Uber, October 2024 – Present)
Role: Software Engineer (External Consultant)
Client: Uber (Hyderabad)

Project Description: Developed and enhanced a scalable **Client Solutions Portal**(<https://client-scaledsolutions.uber.com>) to streamline end-to-end data onboarding, annotation, and workflow management for enterprise clients. Built backend automation and integrations for media uploads, task creation, questionnaire management, pre-annotation processing, and batch orchestration. Implemented APIs and data processing pipelines to handle large-scale datasets, automate validation, and improve operational efficiency. Optimized file processing, cloud storage integration, and workflow automation using Python, SQL, REST/gRPC APIs, and cloud services, significantly reducing manual intervention and improving system reliability.

Technology/Skills/Tools: Python, Pandas, JSON, CSV, REST APIs, Gspread, Google Cloud Storage, Azure DevOps, Cursor, GitHub, Uber internal tools(Presto, DSW, Devpod, flippr, Phabricator, Query builder, API Explorer)

Key activities performed:

- Developed backend services and automation for client onboarding and workflow management.
- Evaluated and integrated open-source Computer Vision models from GitHub/Hugging Face for image and video-based use cases, setting up inference pipelines and validating model outputs on customer datasets.
- Ran pre-trained object detection and image/video models on large datasets to generate predictions and pre-annotations for downstream labeling workflows.
- Integrated model outputs with annotation platforms to accelerate labeling and reduce manual annotation effort through pre-labeling by 60%.
- Researched and evaluated open-source Computer Vision models from GitHub and other model repositories based on use-case requirements, compatibility, inference performance, and prediction quality; integrated suitable pre-trained models into Python-based image/video inference pipelines, handling frame extraction, preprocessing, model inference, post-processing, and conversion of predictions into annotation-ready formats.
- Integrated REST and gRPC APIs for task creation, batch management, and annotation workflows.
- Designed multithreaded solutions for high-volume file processing and cloud storage operations.
- Developed Python automation tools to streamline large-scale data processing and annotation workflows, reducing manual effort and improving operational efficiency.
- Designed and optimized ETL pipelines for processing CSV, JSON, Excel, and multimedia datasets with comprehensive validation and error handling.

- Developed video processing pipelines using FFmpeg for transcoding, segmentation, timestamp extraction, and media preprocessing.
- Implemented a feature where clients can automatically convert batches into YOLO/pre-annotation formats, handling missing bounding box values and task metadata extraction.
- Built and integrated a GenAI-powered Slack bot that fetches and executes relevant Python scripts based on user use cases, enabling on-demand automation and reducing manual effort.
- Developed a web scraping solution to collect restaurant reviews from Doordash for evaluation
- Implemented API-based automation to fetch, filter, and sync tasks across environments, integrating error handling, retries, and logging.
- Developed various automations pipelines and built web applications using Streamlit, Django and Flask.

Project: Built GenAI Systems for Banking Sector (LNRS & FITCH, July 2024 – October 2024)

Role: Python GenAI Developer

Client: WNS Global

Project Description: Developed an **AI-driven workflow application** to automate project information extraction, enrichment, and validation using **GenAI, search engines, and web scraping**. The system consolidates multi-source data, applies validation rules, and outputs structured project details with high accuracy.

Technology/Skills/Tools: Python, GenAI APIs, Google & Bing Search APIs, Web Scraping (BeautifulSoup/Requests), Multi-threading, Translation APIs, Data Validation, Logging & Error Handling

Key activities performed:

- Designed an end-to-end automated pipeline integrating **GenAI, search engines, and web scraping** for project data extraction.
- Implemented initial GenAI calls to retrieve project details (country, language, project name translation, and metadata).
- Built parallel multi-threaded search workflows for Google and Bing to gather field-specific information efficiently.
- Developed field-specific GenAI extractors to process search engine snippets and retrieve structured outputs.
- Integrated web scraping fallback logic to handle missing fields (Project Update Date, Value, Start/End Dates mandatory).
- Applied site validation rules (character count, robots.txt compliance) before scraping to ensure ethical and efficient data collection.
- Created a secondary GenAI pass to refine and extract details from scraped data.
- Consolidated search snippets + scraped results into a unified dataset with confidence scoring.
- Implemented preferred URL inclusion logic to flag high-priority sources.
- Delivered final structured output to the processing queue for downstream systems.

Software Engineer

Zensar Technologies, Hyderabad (September 2022 – July 2024).

Project: Front Arena Cross Asset Trading and Risk Platform. (July 2023 – July 2024)

Role: Python Developer

Client: FIS Global (Europe)

Project Description: It is a Cross Asset Trading and Real time front to back Solutions for all organizations trading in global capital markets. The solution offers order and execution management mark to market, Sales, Trading, Pricing, Position and Risk Management, Operations and Online Trading Functionality across all asset Classes.

Technology/Skills/Tools: Python (ACM AEL), Arena SQL, GIT, ADFL, SQL Server, Front Arena Prime.

Key activities performed:

- Delivered Customer requests on time with quality solutions for the customer problems
- Wrote **Python** Scripts in Python Front Arena Prime Application using **ACM and AEL** libraries to Create, Update, Read and Delete Trades, Portfolios, Instruments and sheets. Update those as client-given data and deploy it in Arena Production Environments daily.
- Created Distribution Configuration and Calculation Environment and installed Multiple services accordingly using **PACE** Server.
- Created the Automation process python Script using **GIT** for Backing up the files in the Repository daily and reduced the manual efforts by **2 to 3 hours**.
- Wrote Python Script for the Automation Installation of the services/servers.

- Used SQL for the purpose of Pulling the data from the Data base and linked it to the **Python Prime Application**.

Project: Migrating the Existing Online Banking Application (December 2022 – July 2023)

Role: Jr. Python Developer

Client: Nedbank (South Africa)

Project Description: It is an Online Banking application that provides a convenient and secure platform for customers to manage their finances remotely in which the users can perform checking Account balances, pay bills, setting up recurring payments etc.

Technology/Skills/Tools: Python, Core Java, Django, Pandas, VS Code, GIT, XML, Excel, Notepad++.

Key activities performed:

- Migrated the Code from Java to **Python** and used **Django** Framework.
- Involved in writing Python Script for Income Verification.
- Wrote the python script for segregation of data that present in XML by using Pandas Library.
- Performed the **Web Scrapping** by using scrapy and beautiful soup for extracting the price and features of the items in smart Prix website for internal purpose.

Project: Employee Management System (October 2022 – December 2022)

Role: Python Trainee

Client: Zensar Technologies (Internal)

Project Description: It is basically a web Based Application where Company can maintain the data like adding the employees, deleting, managing Appraisals and Marking Attendance in Time sheets. All the CRUD operations were performed on Employee.

Technology/Skills/Tools: Python, Django, VS Code, HTML, CSS, Java Script, SQLite3.

Key activities performed:

- Managed the **Team of 5** to complete the work on time.
- Performed **CRUD** Operations on Database.
- Pulled data from database and linked it to the front-end.
- Wrote Functions for managing data and worked on **decorators**.
- Deployed web applications on **python anywhere**. (url:<https://saikiran01.pythonanywhere.com>).

Education Qualification

Bachelor of Technology in Computer Science & Engineering from Jawaharlal Nehru Technological University Hyderabad in 2022.

Skills

Programming Languages: Python, Core Java, Bash/Shell Scripting.

Frontend languages: HTML, CSS.

AI / Computer Vision: GenAI APIs, pre-annotation pipelines, YOLO formats, image/video processing, frame extraction, annotation workflows

Databases: SQL, SQLITE3, Presto.

Cloud Computing: AWS (EC2, S3, IAM), Google cloud storage, Google Drive API, Terrablob.

Frameworks: Django, Flask, Streamlit, REST APIs, FastAPI.

Video/Media: FFmpeg, FFprobe, H.264, MP4, MPEG-4, video segmentation, stitching, streaming optimization

Techniques: Web Scrapping, Building Automation Tools/Pipelines, GenAI Solutions

Tools: GIT, VS Code, PyCharm, GIT, JIRA, Jupiter Notebook, Docker, Uber Internal Tools/software(Presto, DSW, Devpod, flippr, Phabricator, Query builder, API Explorer, Terrablob, Client portal, Cursor, UTask, ulable)

Libraries: Pandas, Beautiful Soup, Pytube, FFmpeg, REST APIs, Requests, BeautifulSoup, Scrapy, OAuth/Bearer authentication.

Operating Systems: Windows, Linux.

Certifications

- AEF Base Certified Developer From FIS
- Front Arena Boarding Pass Level 2 Mastery
- Cloud- AWS

- Aviatrix certified Engineer- Multi Cloud Network Associate.
- HTML5 & CSS3 from Pirple (Id: nw23c5tvx5)

Achievements

- Received Spot award for excellent performance from Client Senior Management during their visit to Zensar Pune office on 7th Feb 2024.
- Mentioned by name with positive feedback from the Director.
- Top performer in Clad Ethon conducted by Zensar in Training Period.
- Received client appreciation email for Identifying the bug and fixing it.

Other Skills and Area of Interests

- Excellent problem solving and analytical skills.
- Good team player with strong communication and interpersonal skills.
- Good exposure in building GenAi Systems using Python.
- Eager to Learn new age technologies. Passionate about exploring the AI/ML and ZKP (zero knowledge proof).