

Saswat Kumar Pradhan

saswatkumar.com

SOFTWARE DEVELOPER – PYTHON | AUTOMATION | CLOUD | AI

Bengaluru, India | 8328841403 | saswatkumar059@gmail.com

Profile

Software developer with expertise in Python, Django, FastAPI, and React.js, experienced in building automation solutions, AI-powered applications, and scalable cloud systems. Proficient in n8n, OpenAI LLMs, RAG, LangChain, LangGraph, and AWS, with hands-on experience in developing agentic AI workflows, multi-agent orchestration, and LLM observability using Langfuse. Also experienced in implementing AutoGen-based autonomous systems and MCP server solutions, with a strong focus on secure, responsive, and cost-efficient system design.

Experience

HASHEDIN by DELOITTE | Software Engineer

Mar, 2026 – Current

- Worked as a Python backend engineer developing and maintaining scalable software applications for enterprise projects, focusing on backend functionality, API development, performance optimization, and reliable system integration.
- Worked with **AWS** and **Salesforce** integrations to develop and support application features and business processes.
- Collaborated within an agile development team on **pharmaceutical domain** projects, contributing to backend architecture, system enhancements, and secure data handling solutions.

AUTODESK | Software Development Engineer

Oct, 2024 – Dec, 2025

- Developed automation solutions, including Slack-to-Jira bots and AI-powered summarizers, to streamline workflows.
- Designed and maintained integrations on the **n8n platform and MCP servers**, enabling seamless connection between **tools and services**.
- Built intuitive front-end dashboards using **React.js** for monitoring and managing automation processes.
- Integrated OpenAI LLMs with AWS services (Lambda, Secrets Manager, SNS, RDS) to implement scalable business logic.
- Configured CI/CD pipelines with Jenkins for automated deployments and utilized AWS Amplify for web app deployment.

APCOSYS | Python Developer

Dec, 2023 – Oct, 2024

- Developed secure backends for **Django** projects and frontend Dashboard with ReactJS.
- Integrated chatbots using **OpenAI LLM** to enhance functionality and user interaction within applications.
- Managed project versions efficiently with Git, fostering smooth collaboration within the team, coordinating tasks, and incorporating feedback for project success.
- Hosted and maintained scalable, reliable, and secure applications on AWS cloud infrastructure.

Skills & abilities

- Backend Development: Proficient in **Django** and **FastAPI**, with experience in **Swagger UI** for API documentation.
- Automation & Integrations: Skilled in building bots (e.g., Slack-to-Jira, AI-based summarizers) and workflows.
- Frontend Development: Experienced in **React.js** (also worked with **Next.js** and **Angular.js**), creating intuitive and responsive dashboards for automation and data visualization.
- Cloud: Strong knowledge of AWS (**Lambda**, **Secrets Manager**, **SNS**, **RDS**, Amplify) and cloud resource optimization.
- AI & LLMs: Expertise in OpenAI LLMs, **LangChain**, Gemini Gen AI with Semantic Kernel, and applying Machine Learning Models to business use cases.
- System Design & Architecture: Solid understanding of scalability, security, and efficient architectural practices.
- Databases: Practical experience with MySQL, PostgreSQL, SQL Server, and MongoDB.
- Messaging & Task Management: Familiar with **Kafka**, Celery, and **SMTP** for real-time monitoring, and task scheduling.
- Web Technologies: Proficient in **HTML**, **CSS**, **JavaScript**, **Bootstrap**, and **Material UI (MUI)** for responsive UI/UX design.
- Authentication & Security: Strong knowledge of **JWT authentication** and secure API development.
- Operating Systems: Experienced with **Linux**, adept at using its **CLI** for development and deployment.

Projects

Multi-Agent Code Analysis & Documentation System

- Built an AI-powered multi-agent platform using LangChain, LangGraph, and AutoGen to analyze codebases, generate dual-perspective (SDE & PM) documentation, and provide real-time progress updates during execution.
- Integrated retrieval-augmented generation (RAG) with VectorDB to enable intelligent Q&A over repositories, along with automated architecture visualization and PDF report generation.
- Implemented observability and token tracking using Langfuse, alongside a FastAPI backend and Streamlit frontend for seamless GitHub integration, user management, and interactive analysis workflows.

Personal Gen AI Application

- Created a personalized Generative AI application utilizing Google's Gemini LLM.
- The project involved building a sophisticated content generation tool that adapts to user inputs, offering highly customized and context-aware responses. Implemented using Django, the application is designed for efficiency, scalability, and secure API integration, providing real-time, dynamic user interactions.
- Integrated a Retrieval-Augmented Generation (RAG) pipeline to enhance the application's accuracy and relevance by retrieving relevant information from external data sources.

Air Quality Prediction (ML)

- Prediction of Relative humidity based on past data by using machine learning. This prediction will help us to know about the present and upcoming situations and precautions accordingly.
- Utilized supervised learning techniques and data preprocessing to train the model on past environmental data, enabling accurate forecasts of relative humidity levels.

Leapss (Leave Application System)

- Contributed to the development of a comprehensive Human Resource Management System (HRMS) by designing and implementing the Attendance Module.
- This module includes essential features such as leave ledger, leave management, and a personalized smart advanced calendar, streamlining attendance tracking and scheduling processes. Collaborated effectively within a team environment to ensure seamless integration and optimal functionality across the entire system.

Certifications / Workshops

- Complete MCP Bootcamp – Udemy
- Building AI Agents & Agentic AI System via Microsoft Autogen – Udemy
- AI Agent Build by Copilot – Microsoft
- Gemini Integration Workshop – Google
- Python Full Stack Development – PySpiders

Education

BCET, Balasore, Odisha | Graduation | 2018 - 2022

Stream: Computer Science & Engineering

University: BPUT, Rourkela, Odisha

CGPA: 8.33

Hobbies

- Playing chess.
- Reading & Listening Stories.
- Designing webpages.