Saswat Kumar Pradhan

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SOFTWARE DEVELOPER – PYTHON | AUTOMATION | CLOUD

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Profile

Skilled 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, AWS, and system design, with a focus on creating responsive, secure, and cost-efficient solutions.

Experience

AUTODESK | Software Development Engineer   **Oct, 2024 – Current**

- Developed automation solutions, including Slack-to-Jira bots and AI-powered summarizers, to streamline workflows.
- Designed and maintained integrations on the **n8n platform**, 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.
- Managed and optimized **AWS resources**, including **Amplify hosting**, ensuring reliability, scalability, and cost efficiency.

APCOSYS | Python Developer   **Dec, 2023 – Oct, 2024**

- Developed secure backends for **Django** projects.
- 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.

FOLKSMEDIA | Python Backend Intern   **Jul, 2023 – Sep, 2023**

- Acquired proficiency in utilizing **FASTAPI** and applied this knowledge in a real-time live project.
- gaining practical experience in developing high-performance web APIs.
- Developed and maintained backend features for web applications using Python and FASTAPI framework, contributing to the enhancement of overall system functionality.
- Collaborated with senior developers to troubleshoot and debug issues, gaining hands-on experience in problem-solving within a professional development environment.

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 designing seamless workflows using **n8n**.
- Frontend Development: Experienced in **React.js** and **Next.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 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, Sentry, and SMTP for real-time events, 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

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.

Blogpost (.BLOG)

- Blogpost simplifies user registration with a swift and secure one-time password (OTP) system, ensuring only legitimate users gain access within a two-minute window.
- Once registered, users enter a vibrant blogging community where they can explore and create posts effortlessly, with content control vested solely in the hands of the post creator.
- Combining simplicity with security, Blogpost offers users a seamless blogging experience while prioritizing privacy, redefining the blogging landscape one secure registration at a time.

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

- AI Agent Build by Copilot – Microsoft
- Gemini Integration Workshop – Google
- Python Full Stack Development – PySpiders
- Java Full Stack Development – JSpiders

Education

BCET, Balasore, Odisha | Graduation   **2022**

Stream: Computer Science & Engineering

University: BPUT, Rourkela, Odisha

CGPA: 8.33

Hobbies

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

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