

Akshey kumar Vaishanava

Python Software Developer



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📅 27th November 1998

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Profile

4 year Experienced Software Developer | Python, Django, Laravel, AWS, and Docker Expert

With over **4 years of experience** in the information technology and services industry, I am a skilled Software Developer known for delivering high-quality, scalable, and efficient solutions. My expertise spans **Python, Django, JavaScript, HTML5, CSS3, and jQuery**, alongside proficiency in data analysis tools such as **Pandas** and **NumPy**. I have extensive hands-on experience with **AWS Cloud Services**, excelling in **IAM, AWS Lambda, CloudTrail, EC2, S3, RDS, CloudWatch, API Gateway**, and various monitoring and automation tools. Additionally, I am adept at leveraging **Docker** and **Kubernetes** for containerization and orchestration, ensuring seamless deployment and scaling of applications.

My strengths include:

- Developing robust backend systems and APIs using Python and Django.
- Building dynamic web applications with Laravel and PHP.
- Implementing cloud-native architectures with AWS.
- Streamlining CI/CD pipelines using Docker and Kubernetes.
- Analyzing data efficiently for informed decision-making.

I am passionate about staying ahead in technology trends, mentoring teams, and delivering innovative solutions that drive business success.

Technical Proficiencies

- **Languages:** Python, Pandas, NumPy, Django, Laravel, JavaScript, HTML,, AI, ML
- **AI/ML Libraries:** TensorFlow, PyTorch, Scikit-learn, Keras, NLTK, SpaCy, OpenCV
- **Web Technologies:** HTML5, CSS3, Bootstrap, JSON, AJAX, jQuery
- **Frameworks:** React.js, Frappe
- **Editors:** Microsoft Visual Studio Code, Sublime, AWS Lambda Console
- **Databases:** MySQL, PostgreSQL, MongoDB
- **Cloud Platforms:** AWS (IAM, Lambda, EC2, S3, RDS, CloudWatch, API Gateway)
- **Containerization & Orchestration:** Docker, Kubernetes
- **Tools:** Postman
- **Operating Systems:** Windows, Linux

Professional Experience

January 2021 – present

Luminous Infoways private limited, Software developer

- **Python Development & Cloud Expertise:** Delivered robust solutions for global military organizations by developing Python-based applications and leveraging **AWS Cloud Services** such as EC2, Lambda, S3, RDS, IAM, and CloudWatch.
- **AI/ML Integration:** Designed and implemented intelligent automation solutions using **AI/ML frameworks** like TensorFlow, Scikit-learn, PyTorch, and Keras, enabling predictive analytics and process optimization.
- **Containerization & Orchestration:** Extensive experience with **Docker** and **Kubernetes**, ensuring scalable, reliable, and efficient deployments in cloud-native and hybrid environments.
- **Collaboration Portal Development:** Built a **Python-based collaboration portal** integrated with **React.js** and JavaScript, incorporating advanced site governance features such as:
- **Agile Delivery & Stakeholder Engagement:** Gathered requirements, collaborated with stakeholders, and delivered high-quality solutions using **Agile methodology**, ensuring alignment with business objectives.
- **Code Quality & Version Control:** Maintained high-quality code and streamlined collaboration through **GitHub** and **SVN**, ensuring version control and continuous integration.
- **Python Migration Projects:** Successfully managed and executed multiple **Python migration projects**, improving system performance and modernizing legacy applications.
- **Domain Expertise:** Demonstrated strong domain knowledge in **Banking, E-Commerce, E-Governance**, and **Hospitality**, delivering tailored solutions to meet industry-specific needs.
- **Mentorship & Knowledge Sharing:** Mentored freshers and new team members, conducting **knowledge transfer sessions** and fostering a culture of growth and learning within the organization.
- **Information Security & Compliance:** Supported **information security audits** with in-depth knowledge of audit checklists, ensuring adherence to compliance standards.

Project Summary

Project Name: Prison Management Information System (Uganda)

Client: A Global Military Organization, Uganda **Role:** Full Stack Developer (Backend & Database Management)

Responsibilities:

- Developed and implemented the **Prison Management Information System (PMIS)** to enhance information management, planning, decision-making, and administration across geographically dispersed prison stations.
- Designed the system architecture with a focus on optimal performance, high availability, security, and affordable maintenance.
- Managed large volumes of persistent data integrated from multiple stations, ensuring effective data processing, storage, archiving, and distribution.
- Created and maintained various operational and management reports, including **Court Lists, Custody Lists (Inmate Location), Inmate Census Report, Property Transaction Report, Transfer Schedule Report, Alert Reports, Daily Schedule Reports**, and **Prisoners' Earnings**.

- Developed the entire system in **Python** and **Django**, using **JavaScript**, **Bootstrap**, and **SQL Server 2012** for database management.
- Deployed the system on **AWS Cloud** for scalable and secure hosting.

Technologies: Python, Django, JavaScript, jQuery, Bootstrap, HTML5, CSS, SQL Server 2012, AWS Cloud Services

Duration: Oct 2020 – Oct 2021

Project Name: Sido Kanhu Murmu University – File Tracking & Management System **Client:** Vice Chancellor, Sido Kanhu Murmu University, Dumka, Jharkhand **Role:** Database & Backend Developer, Full Stack Developer

Responsibilities:

- Designed and implemented database objects such as tables, stored procedures, functions, and table types.
- Developed Business Entities Layer and Data Access Layer for seamless interaction between the front-end and back-end.
- Led the creation of a comprehensive File Tracking & Management System to monitor and streamline the receipt, dispatch, and movement of files, ensuring a paperless workflow for improved government decision-making.
- Automated processes for letter receipt, dispatch, and file movement, contributing to increased efficiency and faster resolution of tasks.
- Developed key modules within the system, including:
- Utilized **Python** and the **Django Framework** for the backend development, **jQuery** and **JavaScript** for front-end functionalities, and **PostgreSQL** for database management.
- Deployed the application on **AWS Cloud** for scalable and secure hosting.

Technologies: Python, Django, PostgreSQL, jQuery, JavaScript, AWS Cloud Services

Project Name :Smart Inventory Management System

Client: Retail Chain

Role & Responsibilities:

- Developed a **Smart Inventory Management System** to streamline inventory tracking, demand forecasting, and restocking processes.
- Integrated **AI-powered demand forecasting** to predict future inventory needs and minimize overstocking or understocking issues.
- Designed an intuitive dashboard for real-time inventory visualization and alerts for low-stock items.
- Containerized the application using **Docker** and deployed it with **Kubernetes** for efficient scaling across multiple locations.
- Leveraged **AWS Lambda** for serverless computation and **S3** for secure data storage.

Technologies: Python, Django, PostgreSQL, React.js, AI/ML, Docker, Kubernetes, AWS

Project Name :AI-Powered Customer Feedback Analysis System

Client: E-commerce Platform

Role & Responsibilities:

- Designed and implemented an **AI-based system** to analyze customer feedback and generate insights for product improvement and strategy formulation.
- Built an NLP-powered sentiment analysis module to classify customer feedback into positive, neutral, and negative sentiments.
- Developed predictive analytics using **ML models** to forecast trends and suggest improvements.
- Deployed the system in a **containerized environment** using **Docker** and **Kubernetes** for seamless scalability and management.
- Used **AWS Services** for real-time feedback aggregation and secure data storage.

Technologies: Python, Django, React.js, Kubernetes, Docker, AWS, PostgreSQL, AI/ML

Project Name : E-File Kenya, Kenya

Client: Kenya Parliament

Role: Software Developer

Role & Responsibilities:

- Designed, developed, and maintained an **E-File Approval System** for managing file storage and approvals in the Kenyan Parliament.
- Built robust APIs for integration with third-party systems and implemented modern web development practices.
- Utilized **Docker** and **Kubernetes** for efficient deployment and scaling of the application.
- Ensured high performance and security by hosting the system on **AWS Cloud Services**.
- Continuously updated features based on feedback and trends in web technologies.

Technologies: Python, Django, React.js, PostgreSQL, Docker, Kubernetes, AWS

Career Objective

To secure a challenging role where I can leverage my technical expertise and innovative mindset to drive organizational success, while continuously enhancing my skills and staying abreast of emerging technologies and industry trends.

Declaration

I hereby declare that the information provided above is true and accurate to the best of my knowledge and belief.

_____ **Akshey Kumar Vaishanava**