Abhishek Vyas, Software Engineer

Resume updated on – [7 March 2025]

Summary

Software Engineer with **5+ years of experience** in **software development, AI/ML, and automation**. Proficient in **designing scalable microservices, ML pipelines, and AI-driven automation solutions**. Skilled in **Copilot Studio, Power Automate**, and **ML-driven analytics**. Experienced in **Low-Level Design (LLD), system scalability, and mentoring developers**. Passionate about **building high-performance distributed systems** and **driving innovation with AI/ML solutions**.

Technical Skills

- **Programming Languages:** Java, Python, C++, C, PHP, JavaScript
- **Frameworks & Tools:** Django, Flask, Spring Boot, Apache Camel, ELK Stack, Jupyter Notebook, IntelliJ, Postman
- **AI & ML Tools:** Kubeflow, Kubeflow Pipelines, Microsoft Copilot Studio, Power Automate, MLFlow
- **Data Engineering & Visualization:** Superset, Apache Pinot, Pesto, Apache Kafka, Kibana, Grafana, Prometheus, Tableau
- **Web Technologies:** GraphQL, REST, JSON, HTML, CSS, jQuery, AJAX, Bootstrap
- **Databases:** MongoDB, Elasticsearch, MySQL, PostgreSQL, Redis, Cassandra
- **Messaging Systems:** Apache Kafka, RabbitMQ
- **Cloud & DevOps:** Microsoft Azure, Docker, Celery, Celery Beat
- **Version Control:** Git

EXPERIENCE

NEXTUPLE

SOFTWARE ENGINEER **JAN 2021 –CURRENT**

- Designed and developed **scalable order management and fulfillment solutions**, optimizing **system performance and automation**.
- Led Machine Learning initiatives such as **Signet ADD PE ML**, improving efficiency and driving **AI-driven business automation**.
- **Designed & built** REST APIs in **Django and Spring Boot** across multiple applications as per business requirements.
- Built and deployed **Kubeflow pipelines**, **Copilot Studio automation agents**, and **AI-driven solutions** for real-time analytics and process optimization.
- Designed and optimized **Inventory KPIs** using **Apache Pinot and Superset** for **data-driven decision-making**.

- Led the development of **Quick Ship Filter (Signet Simulation)** using **Celery and Celery Beat**, enhancing operational efficiency.
- Implemented **cost-based sourcing (CBS) solutions** and managed **database separation** to improve system **scalability and performance**.
- Designed **Low-Level Designs (LLD)** for critical system components, ensuring modularity, maintainability, and scalability.
- **Mentored junior developers**, enforced **best coding practices**, and actively contributed to **technical hiring and knowledge sharing**.

10Times

SOFTWARE PROGRAMMER **FEB 2018 – JUN 2019**

- **Automated** event-related processes using **PHP & Symfony**, reducing manual effort by **40%**.
- **Developed & improved** event discovery & notification systems, enhancing user engagement.
- ∉ **Trained & mentored** interns for seamless onboarding, ensuring faster integration into the team.
- ∉ **Designed & optimized** front-end UI components using **Bootstrap, jQuery, and Ajax**, improving UX.
- ∉ **Managed** database operations using **MySQL & PostgreSQL**, improving data retrieval efficiency.
- ∉ **Collaborated** with cross-functional teams using Git & GitHub, streamlining code management.

Education

- **M.Tech in CSE** – IIIT Delhi (2021) | **CGPA: 7.68**
- **B.Tech in CSE** – Dr. A.P.J. Abdul Kalam Technical University (2018) | **80.42%**
- **12th (PCM)** – Jawahar Navodaya Vidyalaya, Lalitpur (2013) | **84%**
- **10th** – Jawahar Navodaya Vidyalaya, Lalitpur (2011) | **CGPA: 9.8**

Certificates and Achievements

- **Winner – Nextuple Hackathon 2025** (Built an AI-powered Copilot Studio Agent for automation).
- **Microsoft Copilot Studio & Power Automate** (Hands-on learning & implementation).
- **Celery & Celery Beat** (Task scheduling & automation expertise).
- **Smart India Hackathon 2017** – Top 23% finalist.
- **Azure Serverless** – Hands-on Learning (Udemy)
- P**ython REST APIs with Flask, Docker, MongoDB & AWS DevOps** (Udemy)
- **Java Functional Programming with Lambdas & Streams** (Udemy)
- ∉ **Certificate of Merit** – Excellence in academics (all 4 years in B.Tech)
- Selected among the top 80 meritorious students of the district for JNV.

Personal Projects

- **Pick Pack (Mailroom Automation Web App)** – A web-based application that automates internal package tracking within organizations, ensuring efficient mailroom operations.
- **Patient Billing System (Hospital Management Application)** – A system to manage patient records, including medicines, diagnoses, and doctor details, while generating comprehensive billing during discharge.
- **Conference Hall Booking System (Web-based Booking Platform)** – An online platform for real-time booking and availability tracking of conference halls.
- **Response Time Prediction (ML-based Question Analysis)** – Machine learning model to predict response time for Stack Overflow questions based on text and tags, improving response efficiency.
- **Cuisine & Wine Quality Prediction (Data Science & ML Project)** – Utilized ML models to analyze cuisine similarities based on ingredients and predict wine quality using classification and regression techniques.
- **Heart Disease Prediction (Healthcare AI Solution)** – Implemented a hybrid ML model (HRFLM) combining decision trees, KNN, random forests, and SVM for improved cardiovascular disease detection.
- **IMDB Score Analysis (Data Mining & Visualization)** – Analyzed a dataset of 5000+ movies to identify key factors influencing IMDB scores, using Tableau and classification models.
- **Toxicity Level Prediction (NLP & ML-based Text Classification)** – Built an AI model to detect toxic comments from Wikipedia data, categorizing them into toxic, obscene, insult, and identity hate using NLP techniques.