Ashutosh Gajankush

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EXPERIENCE

Software Engineer
WebWorksPros, LLC

Feb 2025 – Present
Southwest Ranches, FL

- Engineered a secure, PCI-compliant payment gateway in **Django**, reducing compliance scope and associated audit costs by over 80% by architecting a system that tokenizes all cardholder data on the client-side.
- Launched a new recurring revenue model by developing a self-managed subscription engine in Django, eliminating 100% of manual billing errors through full lifecycle automation.
- Architected and developed a high-performance, **AI-powered** conversational engine using **Python**, designed for scalable agent-customer interactions.
- Improved AI response selection accuracy by 30% by implementing and utilizing Monte Carlo Simulation to evaluate and rank multiple AI-generated responses.

Senior Software & Data Integration Engineer
BetterNOI, LLC

June 2019 – Jan 2025
Miramar, FL

- Led the architecture and development of a scalable Content Management System (CMS) using **Python** and **Django**, reducing website deployment time by 40%.
- Designed and implemented scalable data models and storage solutions for a high-volume rental application platform, successfully processing over 10,000 applications daily.
- Architected and implemented secure, scalable **RESTful APIs** using Hexagonal Architecture, enabling seamless financial transactions and processing millions in transaction data, showing experience in the **payment processing industry**.
- Automated software delivery pipelines using **GitLab CI/CD**, which decreased deployment time by 20% and increased release frequency from two to five per month, demonstrating experience with rapid iteration.

Software Engineer
SIB Fixed Cost Reduction Developing & Consulting INC.

Jan 2018 – June 2019
New York, NY

- Optimized database performance by designing efficient data models with the **Django** ORM, resulting in a 30% reduction in query time.
- Designed an automated invoice gathering system using **Python Selenium** that increased processing speed by 80% and reduced manual workload by approximately 50 hours per month.

Junior Software Engineer
Border City Media INC

May 2017 – Jan 2018
Irvington, NY

- Designed and implemented HIVE scripts to efficiently load and transform data from diverse sources within the music industry, storing the processed data on the Hadoop Distributed File System (HDFS).
- Collaborated with the team to optimize **Java** scripts for indexing processed data on **SOLR**, significantly enhancing search capabilities and reducing query times by 20%.

PROJECTS

RAG Similarity Search | *Python, Docker, OpeanAI, PostgresSQL(pgvector)*

- Architected and developed a containerized (**Docker**) and scalable backend for a Retrieval-Augmented Generation (RAG) solution using **Python**.
- Implemented high performance vector search by leveraging the **pgvector** extension and **OpenAI's text-embedding-3-small** model with **Approximate Nearest Neighbor (ANN)** indexing to accelerate query speeds.

YouTube Channel Engagement Analysis | *Python, Pandas, Seaborn, Matplotlib*

- Utilized **Python (Pandas)** for efficient data acquisition, cleaning, and pre-processing of large, multi-regional datasets, ensuring high data quality for subsequent analysis.
- Conducted comprehensive **Exploratory Data Analysis (EDA)** using Seaborn and Matplotlib, generating key visualizations to understand data distributions, correlations, and trends across various dimensions.
- Synthesized findings to identify actionable insights into the drivers of video popularity, showcasing strong analytical skills.