

Ashutosh Gajankush

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SUMMARY

A software engineer with 8+ years of experience specializing in Python and Django. I am passionate about building scalable, high-performance applications and have a strong interest in applied AI and data engineering. I am eager to contribute to a fast-paced, ambitious team and am ready to relocate for the right opportunity.

EXPERIENCE

Software Engineer

Web Works Pros, 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.
- Automated software delivery pipelines using GitLab CI/CD, which decreased deployment time by 20% and increased release frequency from two to five per month.

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

Irrington, 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

AI Resume Chatbot | *Python, Gradio, OpenAI, Gemini, Pydantic*

- Developed an interactive AI chatbot to act as a "digital twin" for a professional resume, allowing users to engage in a natural language conversation to query skills and experience.
- Engineered a self-correction mechanism using a Gemini-powered evaluation agent to assess response quality and trigger reruns with feedback, improving answer accuracy.
- Integrated intelligent tool-use for capturing user interest, logging unanswered questions, and recording recruiter inquiries, with real-time Pushover notifications.

Multi-Agent Workflows with OpenAI SDK | *Python, OpenAI SDK, Pydantic*

- Built a demonstration of advanced, multi-agent workflows using the OpenAI SDK, showcasing agent tooling, handoffs, and input guardrails.

- Implemented a Financial AI (FinAI) cold email outreach automation to illustrate how agents and Python functions can be converted into modular, reusable tools.
- Designed a sequential workflow where a manager agent hands off tasks to specialized agents for granular tasks like subject line generation and HTML conversion.

RAG Similarity Search | *Python, Docker, OpenAI, PostgreSQL (pg-vector)*

- 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.