

Sameer Waseem

Full Stack Developer — JavaScript Developer — Generative AI Engineer

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I'm a Full Stack Developer with 4+ years of experience, specializing in Python and Django for building scalable web apps and APIs. I love crafting clean, efficient backend systems with Django, Flask, and PostgreSQL while also working with React and Next.js for smooth user experiences. I've built real-time data integrations, optimized databases, and even worked with Generative AI to push app capabilities. On the DevOps side, I'm comfortable with AWS, CI/CD pipelines, and automation. Always learning and improving, I focus on delivering high-quality, scalable solutions that make an impact.

Technical Skills

Languages: JavaScript, Typescript, PHP, Python

Front-end: ReactJS, React Native, NextJS, CSS/SASS, Tailwind, Bootstrap, Shadcn UI

Back-end: RESTful APIs, GraphQL, NodeJS, ExpressJS, NestJS, Laravel, Codeigniter, Django Flask, FastAPI

Databases: MySQL, PostgreSQL, MongoDB

Generative AI: OpenAI, Gemini, Llama3, ClaudeAI, Prompt Engineering, Langgraph, Langchain, CrewAI

DevOps: AWS, GitHub, GitLab, Digital Ocean

Tools: Firebase, Supabase

Experience

Mir Tech

Feb. 2024 - Present

Full Stack Developer

Kuala Lumpur, Malaysia

- Developed and optimized scalable web applications using Django and Django Rest Framework (DRF), ensuring efficient server-side rendering, faster load times, and seamless user experiences across various devices and platforms.
- Designed and implemented robust RESTful APIs with Django Rest Framework, enabling secure and efficient data exchange between front-end and back-end systems, significantly enhancing application functionality and performance.
- Integrated PostgreSQL and Redis for scalable data storage and caching, optimizing database queries and improving response times for high-traffic applications.
- Implemented Django Channels for real-time features such as live notifications and chat functionalities, enhancing user engagement and interactivity.
- Automated deployment and CI/CD pipelines using Docker, GitHub Actions, and AWS/GCP, ensuring seamless and reliable software delivery while maintaining high code quality and minimizing downtime.

RipeSeed

Jan. 2023 - Feb. 2024

Software Engineer

Lahore, Pakistan

- Spearheaded the creation of a sophisticated web platform using NextJS, MongoDB, and AWS, delivering a seamless user experience while effectively managing client expectations and project timelines.
- Single-handedly designed and implemented a complex system from scratch using Flask, Pinecone, and OpenAI, automating the process of scraping, filtering, improving, and generating unbiased newsletters tailored to user preferences.
- Oversaw the end-to-end development using Flutter Web, NodeJS/ExpressJS, Firebase, and AWS, incorporating Generative AI features to enhance user engagement while managing client relations and project milestones.
- Analyzed extensive datasets and developing a custom AI-driven application using NextJS, OpenAI, and AWS to meet the unique requirements of the client, ensuring a high level of accuracy and efficiency.
- Worked on NodeTS/ExpressTS and OpenAI to create a robust email generation system, taking full responsibility for backend architecture, API development, and cloud deployment on AWS, ensuring high performance and reliability.
- Provided comprehensive project management, from initial consultation to final delivery, ensuring all projects were completed on time and met or exceeded client expectations, while also leading the development of cutting-edge AI and web technologies.

Azi Solutions

Mar. 2020 – Dec. 2022

Associate Software Engineer

Lahore, Pakistan

- Spearheaded the development of AutoOnes and CityBook, managing the entire backend for the website using the MERN stack, ensuring robust performance and scalability.

- Played a key role in the creation of CityBook mobile apps, contributing 50% to the development using React Native, resulting in feature-rich and user-friendly applications.
- Took charge of both frontend and backend development for ListNetworks, handling 40% of the frontend and leading the backend, ensuring seamless integration and functionality.
- Independently developed a project using CodeIgniter and jQuery, building both the frontend and backend from scratch, delivering a fully functional product according to client specifications.
- Successfully integrated Stripe and PayPal payment systems into AutoOnes, CityBook, and ListNetworks, along with implementing Google and Facebook authentication, enhancing user experience and security.
- Deployed all these projects on Digital Ocean and cPanel, overseeing the transition and ensuring smooth operations post-launch, while also providing oversight on ongoing maintenance activities.

Education

University of the Punjab

Graduated Dec 2021

Bachelor of Science in Computer Science

Lahore, Pakistan

- **Relevant Coursework:** Data Structures and Algorithms (C++), Linear Algebra & Statistical, Intro to CS (C++), Web Development (Java)

Projects

Jensi | Python, Django, NextJS, PostgreSQL

- Developed and maintained the Django backend, designing database models, APIs, and authentication systems to ensure a robust and scalable architecture.
- Integrated the Django backend with the NextJS frontend, optimizing API performance and ensuring seamless data flow between services.
- Implemented security best practices, background tasks, and caching strategies to enhance application performance and reliability.

Beltway Brief | Python, Flask, Pinecone, OpenAI, Prompt Engineering, MongoDB, AWS (EBS)

- Led the end-to-end development of Beltway Brief, overseeing architecture, CI/CD pipeline setup with AWS EBS, and frontend design.
- Created Vectors and Handled Vector using Pinecone to optimize OpenAI integration with custom prompt engineering, enhancing the platform's AI capabilities for personalized user interactions.

UpCatch | Typescript, React, NodeJS, ExpressJS, MongoDB, AWS (EC2), OpenAI

- Served as a backend developer, responsible for developing and maintaining the backend components of the project.
- Created efficient CI/CD pipelines using GitHub Actions integrated with AWS, ensuring seamless deployment and continuous integration.
- Integrated OpenAI seamlessly into the backend architecture, ensuring efficient and flawless content generation.

MooziLyrics | Javascript, NextJS, OpenAI, MongoDB, AWS (EC2)

- Led a dynamic team as the project manager, overseeing architecture design, task prioritization, and client interactions to ensure project success.
- Designed and optimized the project's technical architecture, promoting scalability and high performance to meet user demands effectively.
- Maintained rigorous quality control through comprehensive code reviews, fostering a culture of excellence and reliability in development practices.

Open Source

Funkai | Python

- Created a Python package for deploying placeholder functions powered by OpenAI and Anthropic (Claude), simplifying rapid prototyping and linguistic tasks.

jazzcash-checkout | Javascript, NodeJS

- Developed a Node.js library for integrating JazzCash into applications, facilitating easy and secure payment processing.

Blogs

Integrate a chatbot in your website using OpenAI : Learn how to integrate a basic AI chatbot using OpenAI ChatGPT into your website, complete with a step-by-step guide and code examples to enhance user interaction and support. **Read more**

Task scheduling Problems within distributed system : Task Scheduling Problems & Theirs Solutions within a distributed system using AgendaJS. **Read more**