Muhammad Waqas Ashraf

Senior Software Engineer (React | Vue | Python | Django | Flask | FastAPI | AWS | GCP)

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📍 Islamabad, Pakistan

Profile

Senior Full-Stack Developer with over 7 years of experience in designing, developing, and maintaining web applications. Proficient in Python (Django, Flask, FastAPI) and JavaScript (React, Vue.js), with extensive expertise in both frontend and backend technologies. Skilled in utilizing modern development tools and frameworks such as Docker, Kubernetes, AWS, GCP, and CI/CD pipelines. Adept at leveraging SQL and NoSQL databases, including MySQL, PostgreSQL, MongoDB, and DynamoDB. Committed to delivering scalable and efficient software solutions, with a passion for continuous learning and staying current with industry trends.

Professional Experience

Senior Software Engineer (React / Vue | Python)   October 2022 – present
Verdant Soft
As a Senior Software Engineer, I play a pivotal role in shaping technical strategies and executing development tasks across various projects. Some highlights of my contributions include:

- Leading the development of high-performance web applications using React, Vue.js, and Python frameworks (Django, Flask).
- Architecting and implementing RESTful APIs and GraphQL services, ensuring seamless integration with frontend components.
- Spearheading the backend development Jenfi (https://jenfi.com/ ⧉), a revenue based financing platform, using Django Rest Framework, complemented by a React as a frontend.
- Crafting a comprehensive Full Stack Web Application for a CAP (Common Alerting Protocol) server, employing a blend of Vue.JS, Django, and Django Templates.
- Designing and implementing efficient web scrapers to collect and manage sports data, ensuring data integrity within a serverless architecture hosted on AWS.
- Actively involved in software troubleshooting, code optimization, and performance enhancement through meticulous testing and debugging methodologies.
- Taking the lead in architecting both client-side and server-side infrastructures, harnessing cloud-based backend solutions to deliver scalable and reliable systems.
- Optimizing application performance, reducing load times by 40% through efficient coding practices and advanced caching strategies.
- Mentoring junior developers, conducting code reviews, and providing guidance on best practices in both frontend and backend development.
- Collaborating with cross-functional teams to define project requirements and deliver robust solutions within tight deadlines.

Key Achievements:

- Spearheaded the migration of a legacy application to a modern tech stack, improving scalability and maintainability.
- Enhanced user experience by integrating real-time data updates using WebSockets.

Full Stack Developer (React / Vue | Python)   December 2019 – September 2022
Devsinc

As a Full Stack Developer, I've spearheaded various projects utilizing a diverse tech stack including ReactJS, Vue.JS, Python, Django, Flask, Fast API, and AWS, among others. Here are some highlights of my contributions:

- Developed and maintained full-stack applications, leveraging React and Vue.js for frontend and Python (Django, Flask) for backend.
- Designed and implemented SQL and NoSQL databases, including PostgreSQL, MongoDB, and DynamoDB, optimizing data retrieval processes.
- Created reusable components and modular code, reducing development time for new features by 30%.
- Implemented CI/CD pipelines using Jenkins, Docker, and Kubernetes, ensuring smooth and efficient deployment processes.
- Worked closely with UI/UX designers to enhance the usability and aesthetics of web applications.
- Ensured clear communication, managing deliverables, and orchestrating deployments to achieve project milestones.
- Took an active role in the recruitment and mentoring process for interns and fresh graduates specializing in Backend development.

Key Achievements:

- Successfully launched multiple client-facing web applications, leading to a 25% increase in customer satisfaction.
- Reduced server response times by 35% through code optimization and database indexing.

Backend Developer (Python / Django)   March 2017 – November 2019
Emerssive

During my tenure as a backend developer, I've achieved several milestones, including:

- Developed robust backend systems using Python and Django, focusing on scalability and performance.
- Implemented RESTful APIs and integrated third-party services to extend application functionality.
- Managed database design and optimization, working with PostgreSQL and MySQL to ensure data integrity and performance.
- Automated routine tasks and data processing pipelines using Python scripts and cron jobs.
- Participated in Agile development processes, contributing to sprint planning, daily stand-ups, and retrospective meetings.
- Implemented change control best practices to minimize disruptions to end-users during software enhancements.
- Proactive identification of opportunities for system enhancements aimed at improving functionality and streamlining administrative processes, resulting in increased overall efficiency.
- Independent design, development, and thorough testing of code, making substantial contributions to the success of software projects throughout my tenure with the company.

Key Achievements:

- Improved system performance by 50% through code refactoring and implementation of efficient algorithms.
- Played a key role in migrating monolithic applications to a microservices architecture, enhancing system reliability and scalability.

Education

Bachelors in computer Science   February 2013 – January 2017
National University of Computer and Emerging Sciences

Skills

Javascript — Proficient

Typescript — Proficient

React — Proficient

Vue.js — Expert

Python — Expert

Django / Django Rest Framework — Expert

Flask — Expert

FAST API — Expert

PyTorch — Expert

PostgreSQL — Expert

MySQL — Expert

MongoDB — Expert

DynamoDB — Expert

SQL — Expert

AWS (Lambda, EC2, S3, SES, SQS, SNS etc.)
— Expert

Web Scrapping — Expert

Selenium — Expert

Scrapy — Expert

Docker — Expert

Python Requests — Expert

Git/GitHub/GitLab/BitBucket — Expert

Unit Testing — Expert

PyTest — Proficient

Bash Scripts — Proficient

RabbitMQ — Expert

GraphQL — Expert

Docker — Expert

Elastic Search — Expert

Projects

Wemasy - No Code Web Builder ⧉
Web Application & Full Stack Services

Tech Stack: React, Python, Django, FAST API, AWS, MYSQL, GraphQL, Git/Github, and etc.

Description: Developed backend server application using Django for this no-code web-builder platform. The role involved constructing scalable APIs to ensure seamless interaction between the frontend and backend while upholding high standards of code quality and maintainability through best practices in Django development.

Qualcomm AFC System (Device Management System)
Web Application & Full Stack Services

Tech Stacks: Python, Django, Vue.js, DRF, Celery, Redis, AWS, Gitlab CI, Docker, PostgreSQL.

Description: Orchestrated the design of the Qcom AFC System solution, offering integrative solutions for existing APIs and UI systems. Spearheaded the development of backend APIs while overseeing technical aspects and team management. The project encompassed bulk device provisioning and streamlined device management for multiple OEMs.

MIDAS (Job Hunter)
Web Application & Backend Services

Tech Stacks: Python, Django, Selenium, BeautifulSoap & SQL

Description: MIDAS serves as a pivotal automation tool crafted using Python Selenium scripts along with various libraries. Its primary function is to streamline Human Resource activities essential for business operations. These scripts function as autonomous bots, complemented by a robust infrastructure built on Python Django.
The core modules encompass:

- Backend Development - Leveraging Python, Django, Selenium, Beautiful Soup, and SQL to establish robust functionalities.
- Authentication via JWT for enhanced security.
- Extraction of Jobs/Profiles from prominent platforms such as Indeed and LinkedIn.
- Validation through Hunter.io followed by seamless integration into HubSpot CRM.

Google Meeting Recorder
Web Application & Backend Services

Tech Stacks: Python, Flask, REST APIs, AWS, MySQL and etc.

Description: Developed a micro-service in Flask API which is based on an AI bot that records online meetings like Google Meet, etc. Along with the recording of the meeting, it provides the agenda of the meeting, transcription, and all the other details discussed in the meeting.

SEO Analyzer
Web Application and Backend Services

Tech Stacks: Python, Django, AWS, GCP, SQL and etc.

Description: Created a Python-based SEO testing tool utilizing the Playwright library. This tool features an AI model to provide SEO improvement suggestions and runs automated scripts to analyze and optimize web pages based on SEO best practices.

SERVICE BUDDY ⧉
Web Application & Full Stack Services

Tech Stacks: React, Python, Django, MySQL, AWS and etc.

Description:
- Spearheaded engaging technical meetings with clients to understand unique requirements.
- Translated client needs into innovative software solutions.
- Fostered collaborative client relationships through effective communication and problem-solving.

Story Run Away ⧉
Web Application & Backend Services

Tech Stacks: Python, Django, Rest APIs, AWS, Git/GitHub, Docker and etc.

Description: Our platform tackles childhood issues like bullying and abuse head-on, providing personalized stories for impactful learning experiences. Empowering parents and educators, we instill vital values in young minds through captivating narratives right from kindergarten. Utilizing online tools and partnerships, we extend our reach worldwide, aiming to create a safer, more compassionate environment for kids.

Languages

- English