Muhammad Bilal Irfan

Software Engineer

mbilalirfan988@gmail.com 0311-7423325 Lahore, Pakistan Muhammad Bilal

Bilal98815

Profile

Innovative and results-driven Software Engineer with a strong foundation in backend development, cloud integrations, and full-stack application design. Seeking to leverage my expertise in Python frameworks, API development, and scalable solutions to deliver impactful results in dynamic environments.

Education

Bachelors of Science in Computer Science (BSCS) 2020 – 2024
Punjab University College ofInformation and Technology (PUCIT) Lahore, Pakistan

Professional Experience

LinkedMatrix Jul 2024 – present
Associate Software Engineer

- Designed, developed, and maintained scalable backend systems using Django and Flask.
- **Automated** workflows to reduce manual intervention by **30%**, enhancing team productivity.
- Fixed critical backend issues for Shopify applications, resulting in a **20% reduction** in bug-related support tickets.
- Collaborated with cross-functional teams to resolve complex software bugs and ensure smooth project delivery.
- Optimized existing Python scripts, **decreasing runtime by up to 40%** for data processing tasks.
- Integrated new features into existing projects, ensuring alignment with client requirements and deadlines.
- Enhanced customer experience by promptly resolving reported issues, **improving response time by 15%**.
- Wrote comprehensive test cases to ensure code quality, maintainability, and reliability.
- Implemented parallel programming techniques to optimize data processing workflows.
- **Communicated** effectively with team members to streamline development processes and achieve project milestones.
- Deployed projects on **AWS EC2**, **Lambda** Functions and **Contabo** VPSs.
- Designed and deployed Kubernetes clusters on **AWS EKS** and **Linode** Kubernetes Engine to support scalable microservices and distributed scraping workloads.
- Architected orchestration pipelines for large scale web scraping systems.
- Implemented **Redis** for caching and task queueing, significantly reducing database queries and improving system performance and response times.

Tech Sights Sep 2023 – Mar 2024
Jr. Flutter Developer

- Developed and **integrated** Google Maps API and Firebase push notifications into a vehicle tracking app.
- Created and deployed responsive UI components and automated key functionalities.
- **Reduced app load times by 50%** by optimizing REST API calls and local caching.

- **Improved user engagement metrics by 18%** through seamless navigation and feature optimization.
- Ensured smooth app deployment to the Play Store, achieving **100% compliance** with performance standards.
- Streamlined app functionalities, **reducing manual user actions by 25%**.

Upwork Oct 2024 – present
Freelancer
- Delivered high-quality, user-centric Android applications using Flutter.
- Provided tailored solutions to meet client requirements and ensured timely delivery.
- Achieved a **client satisfaction** score of over **90%** by maintaining clear communication and delivering efficient solutions.

Projects

Ablestar
- Enhanced Shopify apps by fixing backend bugs, optimizing performance, and supporting customer queries.
- Converted Shopify REST APIs into GraphQL APIs
- **Technologies Used:** Django, React.js, Docker, Kubernetes, GraphQL, Postgres, Github Actions.

Ecor Email Vault
- Implemented parallel programming in Python to streamline data collection of emails, messages, and chats from MS Teams.
- **Technologies Used:** Flask, Redis, Elastic Search, Docker.

Torrance Analytics
- Enhanced and maintained large-scale web scraping systems for platforms including StubHub, MPV, and AXS by resolving scraper blockages, improving anti bot handling, and optimizing Python based scraping pipelines.
- Improved performance and minimezed Database operations by using **Redis**.
- Designed and implemented scraping orchestration architecture, including task scheduling, distributed scraping workflows, and failure handling mechanisms to maximize reliability and throughput.
- Built, deployed, and managed Kubernetes clusters on **AWS EKS** and **Linode Kubernetes Engine**, automating deployment pipelines and scaling scraper infrastructure using containerized microservices.
- **Technologies Used:** Core Python, Scrapy, AWS, Postgres, Redis, SqlAlchemy, Docker, Kubernetes, GoLogin, Multilogin, Proxies, VPS.

Montel Creago
- Contributed to Montel Creago, an app for support of building's alarms system by Integrated water leakage alarms using Django template tags, retrieved and displayed data from models for the UI, authored comprehensive test cases.
- **Technologies Used:** Django, Docker, Postgres.

HRMS
- Resolved backend issues for the company’s employee management system.
- **Technologies Used:** Django, Next.js, Docker, Kubernetes, Postgres, Gitub Actions.

Luetus
- Debugged and fixed text-to-speech features in a publication app designed for visually impaired users.
- **Technologies Used:** Flutter, Text-to-Speech Engine.

Salesforce Extension
- Resolved bugs in a Salesforce Chrome extension by addressing DOM-related issues in custom datepickers.
- **Technologies Used:** Core JavaScript.

Track Fleet Live
- Developed a vehicle tracking app with Google Maps integration and Firebase notifications.

- Automated functionalities and deployed the app to the Play Store.
- **Technologies Used:** Flutter, Google Maps API, Firebase, REST APIs.

Velocity
- Developed a multiplatform app for my client which is developed for musicians to upload, edit their videos and audios and save them locally.
- **Technologies Used:** Flutter, Hive.

Skills

Django, Flask, FastAPI, Python, Scrapy, JavaScript, React.js, Node.js, Express.js, Flutter, PostgreSQL, MySQL, MongoDB, Redis, Docker, Kubernetes, CI/CD (GitHub Actions), Git/GitHub, Firebase, Netlify, RESTful API development, Google Maps API, Firebase, JWT, Web Scraping.