Muhammad Sallar Bin Aamir

Full-Stack Software Developer

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Profile

Passionate Full-Stack Software Developer with over three years of experience crafting scalable, user-centric web applications using React, Java, Python, and AWS. Adept at integrating AI-driven features, such as chatbots and analytics, into web platforms to enhance functionality and user engagement. Proven ability to deliver seamless frontends and robust backends in Agile environments, with a focus on clean code, performance optimization, and modern DevOps practices. Committed to driving innovation through technology and collaboration.

Technical Skills

- **Backend:** Java, Spring Boot, Python, FastAPI, Flask, RESTful APIs, Node.js
- **Frontend:** React, JavaScript, TypeScript, HTML5, CSS3, Bootstrap
- **Databases:** PostgreSQL, MongoDB, MySQL
- **DevOps:** Docker, AWS (EC2, S3, API Gateway), Kubernetes, Git, CI/CD, Nginx
- **AI Integrations:** LangChain, OpenAI APIs, Hugging Face, Scikit-learn, TensorFlow (for embedding AI in web apps
- **Tools:** Selenium, BeautifulSoup, PyTest, Postman

Professional Experience

Associate Software Engineer *(Futurenostics)* — **Islamabad, Pakistan** *01/2025 - Present*

- Built a full-stack voting platform using React for a dynamic frontend and Spring Boot for a microservices-based backend, reducing API response time by 25% through optimized architecture.
- Integrated an AI-powered analytics module using OpenAI APIs to provide real-time voter sentiment insights, increasing user engagement by 30%.
- Secured microservices with Spring Security and Eureka for service discovery, ensuring 99% uptime and robust access control.

Python Engineer *(Beyond Technologies)* — **Lahore, Pakistan** *05/2024 - 12/2024*

- Developed a full-stack reservation system with a FastAPI backend and React frontend, incorporating Selenium to scrape real-time data from Yelp for over 50 restaurants.
- Designed and deployed custom VAPI tools for availability checks, reservations, and cancellations, enabling seamless integration with restaurant booking systems.
- Optimized PostgreSQL queries for efficient data handling, cutting retrieval time by 35% under high-traffic conditions.

Jr. Software Developer, *(Lumen Technologies)* — **Vancouver, Canada** *01/2024 - 04/2024*

- Created a full-stack cryptocurrency analytics platform using Flask for the backend and React for an interactive frontend, integrating APIs for real-time market data.
- Embedded a sentiment analysis module with Scikit-learn and Hugging Face transformers, visualized through Chart.js, boosting user session duration by 40%.
- Scaled the application with AWS EC2 and S3 that ensured scalability and performance optimization, enabling efficient handling of high traffic and large data volumes.

Education

BSc Computer Science *Bahria University* — **Islamabad, Pakistan**
CGPA: 3.84, Gold Medalist, **Magna Cum Laude**

Notable Projects

- **Dubbix** (https://dubbix.com/): AI-powered web app for text-to-speech, accent conversion, and video dubbing to enhance multilingual content accessibility and engagement.
  Tech Stack: React, TypeScript, FastAPI, Python, OpenAI APIs, AWS (EC2, S3), PostgreSQL, Docker, CI/CD
- **OGE (Operational Gaming Environment):** Game-based learning tool enabling professors to host AI-guided negotiation scenarios with real-time student participation and strategic decision-making.
  Tech Stack: React, FastAPI, Python, Pinecone, OpenAI APIs, WebSockets, PostgreSQL, Docker