Muhammad Sikander Iqbal

Software Engineer

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I'm a passionate software engineer with three years of freelance experience in website and software development. My expertise lies in full-stack development, with a strong grip on PHP, the MERN stack, Java, and Python. I love blending creativity with technology to build impactful solutions, and I'm particularly interested in AI and machine learning. Beyond coding, I thrive in collaborative environments, enjoy solving complex problems, and continuously seek opportunities to learn and innovate. I'm excited about the prospect of furthering my expertise and deepening my understanding of cutting-edge technologies.

EDUCATION

Bachelor of Science in Software Engineering (BSSE), 2024

Department of Computer Science, COMSATS University, Lahore, Pakistan

TECHNICAL SKILLS

Programming Languages

- JavaScript (ES6+), TypeScript, Python, Java, C++
- PHP, SQL

Web & Software Development

- MERN Stack (MongoDB, Express.js, React.js, Node.js)
- Laravel, WordPress Development
- RESTful APIs, GraphQL

Databases & Cloud:

- Oracle, MySQL, MSSQL, PostgreSQL, MongoDB, Neo4j
- Firebase, AWS (EC2)

Development Tools & Practices:

- Git, GitHub, Vercel
- Waterfall, Agile & Scrum Methodologies

Machine Learning & AI:

- Pandas, Matplotlib, Scikit-learn, TensorFlow (Basics), OpenCV
- AI-driven automation and data processing

CERTIFICATIONS

- IBM Data Science Specialization – IBM | Coursera (2024)
- Google AI Essentials – Google | Coursera (2024)
- Machine Learning with Python – IBM | Coursera (2024)
- Python for Data Science, AI & Development – IBM | Coursera (2024)
- Data Analysis with Python – IBM | Coursera (2024)
- Data Visualization with Python – IBM | Coursera (2024)
- Databases and SQL for Data Science – IBM | Coursera (2024)
- The Data Scientist's Toolbox – Johns Hopkins University | Coursera (2024)
- Introduction to Cloud Identity – Google | Coursera (2024)
- Technical Support Fundamentals – Google | Coursera (2024)
- The Bits and Bytes of Computer Networking – Google | Coursera (2024)

PROFESSIONAL EXPERIENCE

Internships

- **WordPress Developer and Content Writer**
  - WebSoft IT Development Solutions, Lahore, Pakistan
  - January 2020 to March 2020
  - Developed and customized WordPress websites, enhancing user experience and site performance while ensuring responsiveness.
  - Optimized content and SEO strategies, improving search rankings and increasing client engagement.
- **PHP Interns Program**
  - Interns Pakistan, Lahore, Pakistan
  - August 2020 to September 2020
  - Designed and deployed two fully functional, high-performance websites, ensuring client satisfaction and optimized user experience using HTML, CSS, PHP, and MySQL.
- **Full Stack Website Development**
  - InternNCraft, Lahore, Pakistan
  - July 2024 to August 2024
  - Developed three scalable web applications using the MERN stack, ensuring efficient performance and responsiveness.
  - Integrated APIs and optimized databases to enhance user experience and system reliability.

Freelancing
- **Fiverr | Upwork**
  - Developed desktop & web apps and websites to fulfill client requirements and business needs.
  - Provided business solutions for data storage of companies, ensuring high client satisfaction.
  - 2020 to present

PAST PROJECTS

Web Projects

- **The Risers Consultancy (Jan 2025 – Ongoing)**
  - Developed a consultancy management platform for branch operations, applicant tracking, and visa processing using the MERN stack.
  - Built an admin panel, document upload system, and dues management module, enhancing efficiency and user experience.
- **OfficeSpot | Workplace Management (Jan 2025 – Ongoing)**
  - Created a workspace discovery and booking platform with advanced search filters, interactive maps, and real-time availability tracking.
  - Developed a scalable, responsive system using PHP and Tailwind CSS, ensuring seamless user experience.
- **Blockly Drone Controller (Oct 2024 - Ongoing)**
  - Developed a Blockly-based visual programming interface for controlling drones via Bluetooth Low Energy (BLE).
  - Integrated Web Bluetooth API for seamless communication, allowing drag-and-drop flight sequence creation.
- **Tennis Court Booking and Management Web App (July 2024 – Aug 2024)**
  - Developed a booking management system for tennis courts with player tracking, head-to-head statistics, and ranking features.
  - Engineered a PHP and MySQL backend, ensuring scalability and efficient performance.
- **Wattergleich24 | Solar and Heating Systems Comparison Web Platform (May 2024 – June 2024)**
  - Built a personalized solar panel and heat pump comparison platform, integrating a multi-step quote calculator for improved user engagement.
  - Designed a responsive and seamless experience using HTML, CSS, JavaScript, and PHP for both desktop and mobile users.
- **E-commerce Platform "ShopStream" (April 2024 – May 2024)**
  - Built a full-fledged e-commerce platform using Laravel (backend) and React (frontend) for a seamless user experience.
  - Integrated secure checkout, cart management, real-time product updates, and user authentication.
- **Jandro | Property Rental Web App (Jan 2024 – Feb 2024)**
  - Developed a real estate management platform that streamlined property listings, document exchange, and chat system integration.
  - Enhanced tenant-landlord interactions by implementing a secure and intuitive UI using cutting edge technologies like Javascript and PHP.
- **Decentralized (dApp Web3) Freelance Marketplace (Oct 2023 – Jan 2024)**
  - Developed a decentralized freelance marketplace integrating blockchain principles with the MERN stack, blending Fiverr and Upwork functionalities.
  - Integrated MetaMask for seamless crypto payments and implemented an escrow system for secure fund holding.

- **State Cleaning Solutions | Cleaning Services Website (Aug 2021 – Sep 2021)**
  - Created a commercial cleaning service website with user-friendly navigation for healthcare, education, and government sectors.
  - Focused on UX/UI enhancements, boosting engagement and accessibility.
- **RCPoliza | Insurance Management Web App (Feb 2021 – April 2021)**
  - Engineered a professional liability insurance portal with advanced quote generation, real-time policy customization, and user account management.
  - Optimized policy comparison and customization for professionals seeking tailored solutions.

Python Projects

- **Dynamic Token Management System (Dec 2024 – Feb 2025)**
  - Developed a Python Tkinter-based GUI app to handle dynamic token counter displays, integrated with APIs for real-time updates.
  - Designed as a standalone, customizable system, adaptable for multiple businesses and user requirements.
- **AutoVulnDetect: Automated Code Vulnerability Detection with ML (Nov 2024 – Feb 2024)**
  - Engineered an automated security assessment tool for Java code, leveraging GraphCode2Vec embeddings and XGBoost classification.
  - Applied deep learning techniques and dependency graphs for vulnerability detection, ensuring efficient security analysis.
- **AI-Powered News Aggregator (Sep 2024 – Oct 2024)**
  - Built a news aggregation and analysis tool using Python, Selenium, BeautifulSoup, and NewsAPI.
  - Integrated a Tkinter GUI for category selection, real-time updates, and visual analytics via Matplotlib.
- **AutoPrice Insights (Jan 2024 – Feb 2024)**
  - Developed a data-driven car pricing model using logistic regression (Scikit-learn) and Power BI dashboards.
  - Conducted market trend analysis with Pandas, Matplotlib, and Seaborn, enabling interactive insights.
- **Automated Airport Data Processing & Enrichment System (August 2023)**
  - Automated airport data extraction, cleaning, and enrichment using Python, Pandas, and OpenPyXL.
  - Integrated web scraping (BeautifulSoup/Selenium) and APIs to fetch missing airport capacities and structured classifications.

AWARDS & Co-Curricular Activities

Best Student Award – COMSATS University, Lahore (2023)

- Recognized for academic excellence and outstanding performance throughout the program.

Active Member – Computer Science Society, COMSATS University, Lahore (2022)

- Contributed to organizing tech seminars, workshops, and coding competitions to enhance peer learning.

Yellow Belt Holder in Karate – PakCanDo Youth Academy, Lahore (2017)

- Developed discipline, resilience, and strategic thinking through martial arts training and competitions.

Camping and Scouting – Pakistan Boy Scout Association, Rawalpindi (2018)

- Acquired leadership, survival, and teamwork skills through outdoor expeditions and community service.

Rover Scout Award – Pakistan Boy Scout Association, Rawalpindi (2018)

- Demonstrated problem-solving and leadership abilities by leading teams in various scout challenges.

REFEREES

- **Dr. Ali Iftikhar Choudhary**
  Senior Lecturer, Management Sciences
  RMIT University, Australia
  Ali.choudhary@rmit.edu.au

- **Dr. Ghulam Rasool**
  Associate Professor, Computer Science
  COMSATS University, Pakistan
  Grasool@cuilahore.edu.pk

- **Dr. Tayyab Chaudhary**
  Assistant Professor, Computer Science
  COMSATS University, Pakistan
  Tayyabch@cuilahore.edu.pk

- **Mr. Muhammad Mohsin Mehdi**
  Lecturer, Computer Science
  COMSATS University, Pakistan
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