



Muhammad Arslan

Sr. Research Analyst Software Engineer

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Dynamic and results-driven **Full Stack Developer** with over **8 years of professional experience** in software and web development. Proven track record of designing and implementing enterprise applications, **ERP systems**, and scalable web platforms using **.NET, Laravel, WordPress**, and other modern technologies. Skilled in **API development and integration**, delivering efficient and secure communication between systems.

Successfully contributed to multiple high-impact public sector projects, including:

- The **Urban Immovable Property Tax (UIPT) System** for the **Punjab Province of Pakistan**, enabling efficient tax management, data digitization, and seamless integration with government records via APIs.
- The **ERP and Asset Management System for WASA**, enhancing asset tracking, resource allocation, maintenance workflows, and operational transparency.
- The **Rainwater Harvesting Balloting System for Murree**, automating applicant selection, verification, and data processing to support sustainable water initiatives.

Highly capable of designing robust databases, building dynamic web interfaces, and optimizing performance.

SKILLS

- Programming Languages: VB.NET, C#, PHP, JavaScript
- Web Development: HTML5, CSS3, Bootstrap, jQuery, AJAX
- Databases: MS SQL Server (2008–2019), MySQL
- Frameworks: Laravel, ASP.NET (Web Forms & MVC), WordPress
- Reporting Tools: Crystal Reports
- API Development: RESTful API design, development, and integration
- Version Control: Git, Vault
- Software Tools: Visual Studio, VS Code, XAMPP, EDraw MAX, MS Office
- Development Practices: Bug fixing, performance optimization, documentation
- Problem Solving: Algorithm design, debugging
- Team Collaboration: Strong communication and teamwork skills

PROFESSIONAL EXPERIENCE

Senior Research Analyst / Software Engineer | The Urban Unit, Lahore, Pakistan | Dec-04-24 to Present

- Leading the development and implementation of a new **Property Tax System** across Punjab, based on **DC (District Collector) rates**, as part of the UIPT initiative.
- Integrated the system with **Punjab Land Records Authority (PLRA)** to verify DC rates and automate tax calculations.
- Designed and optimized **stored procedures, functions, views, and triggers** using **SQL Server** for efficient data management.
- Developed **RESTful APIs and application modules** to manage and map DC rates against individual properties.
- Created and updated **custom reports** using **Crystal Reports** to support tax management and operational decision-making.
- Actively involved in **bug fixing**, performance optimization, and enhancing system reliability.
- Tools & Technologies: **Visual Studio, ASP.NET (MVC), SQL Server, C#, JavaScript, Crystal Reports.**

Research Analyst / Software Engineer | The Urban Unit, Lahore, Pakistan | Dec-19-2022 to Dec-03-2024

- Contributed to the **Urban Immovable Property Tax (UIPT) system** by developing new modules using ASP.NET and C# for efficient property tax management across Punjab, Pakistan.
- Designed and maintained robust **Databases**, including stored procedures, functions, and triggers to ensure seamless backend operations.
- Handled daily **bug fixing**, performance tuning, and system reliability improvements to enhance user experience and functionality.
- Created intuitive **user interfaces** to streamline workflows and improve end-user interactions with the tax system.
- Developed a complete **Asset Management System for WASA**, ensuring accurate tracking and reporting of assets.
- Designed and implemented the **Rainwater Harvesting Balloting System** for **Murree**, facilitating transparent and efficient selection and allocation.
- Tools & Technologies: **Visual Studio, ASP.NET (MVC), SQL Server, C#, JavaScript, Crystal Reports.**

Software Engineer | Multicott Pvt Ltd, Lahore, Pakistan | March-2019 to Dec-18-2022

- Led and contributed to full lifecycle web development, creating multiple **business websites and e-commerce stores** using WordPress and Laravel.
- Designed and customized responsive, high-performance websites tailored to various industries and client requirements.
- Developed and implemented a full-featured **Point of Sale (POS)** system for retail operations.
- Played a key role in implementing a complete **ERP system**, integrating modules for **inventory, sales, HR, and finance**.
- Developed and maintained custom web applications using **.NET** and **Laravel**, ensuring scalability, security, and performance.
- Managed **hosting environments, cPanel configurations, domain setups**, and ensured secure and smooth website deployments.
- Collaborated with cross-functional teams to deliver client-focused digital products, with ongoing support and enhancements.
- Tools & Technologies: **Laravel, WordPress, ASP.NET, VB.NET, C#, HTML5, CSS3, JavaScript, PHP, MySQL, MS SQL Server**

Dot Net Developer | Chartac Business Services Pvt Ltd., Lahore, Pakistan | Jan-04-2017 to Dec-31-2018

- Developed, implemented, and tested custom ERP solutions tailored for manufacturing units using VB.Net, Crystal Reports 2008, and MS SQL Server (2008, 2012, 2014).
- Designed and maintained database-driven applications for finance, HR, inventory, payroll, and production modules.
- Created and updated detailed reports using Crystal Reports, improving operational transparency and decision-making.
- Managed complete software lifecycle from requirement gathering to deployment and user support.
- Delivered full-scale enterprise software systems including:
 1. **Financing Information System**
 2. **Inventory Management System**
 3. **Sales & Receivable System**
 4. **HRMS and Payroll System**
 5. **Point of Sale (POS) System**
 6. **Textile Production System**
 7. **Biometric Attendance System**

Web Development Intern | KSoft (Kahuta Research Laboratories), Islamabad, March 2016 to April 2016

- During my internship at **KSoft**, a division of **Kahuta Research Laboratories**, I was responsible for designing and deploying a web-based login system tailored for enhanced security and user verification. The system was developed using ASP.NET and C#, with a backend powered by MS SQL Server 2012. A key feature of this application was the integration of **MAC address authentication**, allowing login access only from registered machines, significantly enhancing the security layer.

EDUCATION

- Bachelor of Science in Computer Science | Virtual University of Pakistan | Pakistan | 2012 – 2016
- Intermediate (I.C.S) | Board of Intermediate and Secondary Education (Bise) Lahore | 2012
- Matriculation in Bio-Science | Board of Intermediate and Secondary Education (Bise) Lahore | 2010

CERTIFICATIONS

- **FULL STACK** Development, from PNY Training at ARFA Centre, Lahore
- WordPress Web Development from DigiSkills | 2019

REFERENCES

Available upon request.