ANOUSHAH WASIF

Software Engineer

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SUMMARY

Cybersecurity-focused software engineer with a strong foundation in backend development, cloud deployment, and secure system design. Experienced in building and integrating secure APIs, working across .NET, Angular, and the MERN stack. Strong interest in security operations, risk-aware development, and progressing into cybersecurity and cloud security roles.

EDUCATION

Bachelor of Science, Computer Science

Shifa Tameer-e-Millat University, Islamabad

📅 10/2020 - 10/2024   📍 Islamabad, Pakistan

GPA
3.9 / 4

PROFESSIONAL EXPERIENCE

Software Engineer | Remote

Zeds Lab   📅 05/2025 - Present   📍 Islamabad, Pakistan

- Redesigned backend services using .NET Core and Node.js, focusing on scalable architecture, secure API design, and resilient handling of concurrent requests, applying principles from foundational cybersecurity frameworks.
- Enhanced database performance across SQL Server, MySQL, and MongoDB through query optimization, indexing, and secure data handling practices, supporting both efficiency and confidentiality.
- Applied OWASP security standards, implemented JWT/OAuth2 authentication, and performed basic threat modeling to identify and mitigate common security risks, aligning with ISC2 Cybersecurity Certified best practices.
- Incorporated secure coding principles such as input validation, authentication, and access control, strengthening overall system security posture.

Software Engineer | On-Site

Royal School   📅 02/2025 - Present   📍 Pakistan

- Architected and deployed a scalable backend platform using .NET, Angular, and SQL Server, with a focus on secure system design and automated workflows for 1,500+ active users.
- Implemented role-based access control (RBAC) and database security controls in SQL Server to protect sensitive data and support compliance requirements.
- Automated database backups and integrated monitoring solutions to improve system availability, resilience, and incident recovery capability.

Software Engineer | Remote

KALSOFT   📅 11/2023 - 03/2025   📍 Mississauga, Canada

- Engineered secure RESTful services using .NET, C#, and Angular to improve API reliability and scalability, following OWASP best practices to support maintainable microservice communication.
- Deployed and supported cloud-based solutions across AWS (EC2, DynamoDB, Lambda, S3) and Azure, implementing IAM policies, encryption, and monitoring to enhance system security and uptime.
- Migrated data from MongoDB to DynamoDB, reducing query latency by 35% and improving performance under higher concurrent workloads.
- Automated CI/CD pipelines using Docker, GitHub Actions, and AWS CodeBuild, significantly reducing release cycles and minimising deployment-related errors.
- Developed Python automation scripts within Agile sprints to streamline analytics and reporting processes, reducing manual effort and improving operational efficiency.

Software Engineer Intern | On-Site

Emumba   📅 09/2023 - 10/2023   📍 Islamabad, Pakistan

- Built and optimized backend services using Node.js, Express.js, and MongoDB, redesigning schemas for task, deadline, and role management to significantly reduce query execution time.
- Developed secure RESTful APIs implementing JWT-based authentication, role-based access control (RBAC), and Git/GitHub CI workflows, supporting stable deployments and consistent authentication across environments.

Artificial Intelligence Intern | On-Site

National Centre for Physics   📅 08/2023 - 10/2023   📍 Islamabad, Pakistan

- Developed a real-time object detection system using Python and OpenCV, optimized for edge devices to support security monitoring applications.
- Implemented facial recognition using FaceNet (Keras .h5) with over 97% validation accuracy, enabling secure identity verification and access control functionality.

AWARDS

Gold Medal – B.S. Computer Science

Dean's Honor List - Multiple Semesters

Vice Chancellor's Award for Academic Excellence

SKILLS

Development & Frameworks

C#, ASP.NET Core, Node.js, Angular, React.js, Python, SQL

Cloud, DevOps & Databases

AWS (EC2, S3, Lambda, IAM), Microsoft Azure, Docker, Kubernetes, SQL Server, MongoDB, DynamoDB, Git/GitHub, CI/CD Pipelines

Security & Advanced Tools

OWASP Secure Coding, RESTful APIs, JWT/OAuth2, Data Encryption, Threat Modeling, Penetration Testing, Machine Learning, OpenCV

Soft Skills

Analytical Thinking, Problem-Solving, Attention to Detail, Team Collaboration, Communication Skills, Adaptability, Critical Thinking

PROJECTS

Education Management System with Secure Data Analytics (C#, .NET, Angular, SQL Server)

Developed a secure education management platform automating enrollment, attendance, and fee analytics with real-time dashboards.

Intelligent Property Operations Platform (Microsoft Dynamics 365, C#, Power Platform Plugins)

Automated property leasing, invoicing, and maintenance workflows via custom C# plugins, reducing manual effort across teams.

Real-Time Cloud Messaging Framework (AWS, Node.js, WebSockets)

Built a high-performance notification service supporting instant multi-user communication with fault-tolerant, event-driven architecture.

Smart Inventory Tracker (Next.js, Firebase, Vercel)

Developed a responsive pantry management app with live Firestore sync and automated CI/CD workflows.

Predictive Health Analytics Model (Python, ML)

Built a logistic regression pipeline to forecast diabetes risk, achieving 82% predictive accuracy.

CERTIFICATIONS

Certified in Cybersecurity (CC) – ISC2, Sep 2025

Ethical Hacking: Scanning Networks - CompTIA, 2025

Practical Cybersecurity for IT Professionals - IIBA | 2025

Cybersecurity for Executives - IIBA | 2025

Blockchain and Smart Contracts Security - NASBA | 2025

Building and Auditing a Cybersecurity Program – NASBA, 2025

Cybersecurity Awareness: Protect Your Privacy - PMI | 2025