

Pawan Singh

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SUMMARY

Results-driven Software Developer with **3+ years** of experience in **full-stack development**, delivering **dynamic** and **data-driven applications**. Proficient in **Angular 16+**, **ASP.NET Core**, **C# .NET 8**, and **SQL Server**, with a strong foundation in **cloud deployment strategies** using **Azure** and **AWS**. Committed to writing **clean, efficient code** and contributing to **high-performing development teams**.

TECHNICAL SKILLS

Languages: C#, JavaScript, TypeScript, PL/SQL, SQL.

Frameworks & Libraries: Angular, RxJS, C#.Net, Asp.Net Core, Entity Framework, Linq, RESTful APIs.

Developer Tools: SQL Server, PostgreSQL, Git, VS Code, Visual Studio, Teams.

Cloud & DevOps: Azure(Data factory, storage, function) , AWS(EC2, RDS).

EXPERIENCE

University of Houston–Clear Lake

June 2024 – Present

Research Assistant

Houston, TX

- Researching **SQL injection**, **data breaches**, and **encryption** in **cloud-based DBMS** systems.
- Integrated **AES-256** encryption and **Role-Based Access Control** to fortify data security.
- Benchmarked **AWS RDS** and **PostgreSQL** to validate performance impact of security enhancements.

WellBee HealthCare, Inc.

Aug 2020 – July 2022

Software Developer

Mumbai, India

- Developed a healthcare e-commerce platform for booking diagnostic services, serving 500+ users weekly across India.
- Built a scalable appointment booking system with **Angular** components and **.NET Web APIs**, streamlining workflows and improving performance, which led to a **30% increase** in monthly **revenue**.
- Integrated external gateway (**Razorpay**) for secure, seamless payments, boosting success rates and user satisfaction.
- Implemented **Veracode SAST** using **GitHub Actions** , identifying and resolving vulnerabilities (e.g., SQL Injection, XSS), reducing security flaws by **40%**.
- Revamped a vulnerable PHP-based system into a secure, modern web platform using ASP.NET Core and Angular, introducing HTTPS and JWT auth to protect user data and elevate usability.

PROJECTS

SkiNet E-Commerce Platform

Feb 2025

- Built e-commerce platform with **Angular** and **ASP.NET Core** backend for smooth product browsing and buying.
- Implemented product filtering, pagination, and cart features using Angular Material, **Reactive Forms**, RxJS, and created **RESTful APIs** with ASP.NET Core.
- Optimized database and migrated **data management** using **Entity Framework** for improved persistence.
- Integrated **Stripe API** with secure payments, ensuring PCI, GDPR, and HIPAA compliance.

DevZoneBlog – Secure Blog Engine

May 2023

- Angular front-end with secure **C# Web API** backend and **JWT authentication**.
- Validated APIs using Postman and Swagger, and implemented **dependency injection** for cleaner code.

ETL Pipeline for Power BI Dashboarding

Nov 2021

- Built an **ETL pipeline** in Azure Data Factory to consolidate sales, customer, and product data into Azure SQL.
- Designed **Power BI dashboards** to monitor KPIs for sales and customer trends, enabling faster decisions and cutting reporting time by **40%**.

EDUCATION

Master of Science in Management Information Systems

Aug 2022 – May 2024

University of Houston Clear–Lake; GPA: 3.8/4.0

Houston, TX

Bachelor of Engineering in Electronics

Aug 2018 – May 2022

University of Mumbai

Mumbai, India