

Mayank Singla

Software Developer

Motivated and dedicated towards my work with a good understanding of Web Development, having a decent academic track record, and strengthening core concepts to achieve overall development. Looking for self-improvement opportunities while contributing to the symbolic growth of the organization with my logical and analytical skills.

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WORK EXPERIENCE

Product Engineer Smart Energy Water

07/2022 - Present

Noida, India

- Developed RESTful ASP.NET Web API with Entity Framework & LINQ for seamless data retrieval/modification. Implemented request & optional parameters for flexibility.
- Extensively tested API using Postman, ensuring reliability & meeting business requirements. Incorporated authorization for secure access, data protection & reliable functionality.
- Improved API performance with optimizations, reducing response times and latency. Led the migration of SQL-based stored procedures to a LINQ-based API.
- Developed dynamic map (LeafletJS) with marker clustering & lasso functionality for effective visualization of geographical data.
- Implemented export (PDF, Excel, HTML) for data grids, allowing page selection & entire dataset export.
- Provided production support for Payments, AutoPay Scheduler, and IVRToPay, ensuring system availability, prompt issue resolution, and implementing fixes/enhancements.

Product Engineer - Intern Smart Energy Water

01/2022 - 06/2022

Noida, India

- Developed Smart Templates for work orders, inventory, and assets using ASP.NET webpages, allowing for the creation and customization of templates with smart fields, including the ability to add, edit, and reorder fields through drag and drop functionality.
- Utilized w2ui to implement a dynamic grid system and Highcharts to create visually appealing and interactive graphs, enhancing data visualization, interaction, and representation within the application.
- Proficiently utilized HTML, CSS, JavaScript, jQuery, Bootstrap and AngularJS to support the development and enhancement of various web-based projects and applications.

EDUCATION

Thapar Institute of Engineering and Technology

BE Computer Engineering

2022

7.57 CGPA

DAV Public School, Patiala CBSE

2018

X - 10 CGPA // XII - 82%

SKILLS

Web Development

Data Structures

Algorithms

DBMS

Ethical Hacking

Secure Coding

Computer and Network Security

Cyber Forensics

PERSONAL PROJECTS

Fresco

- Developed a college student donation system using Node.js, Express, and MongoDB, facilitating seamless item acceptance and peer-to-peer donations.
- Implemented user sign up, login, admin features, and request creation, ensuring secure access and efficient item donation management.
- Integrated informative pages like college map and food court details, enhancing the user experience with valuable campus information.
- github.com/mayanksingla34/Fresco

Tax Calculator

- Developed a tax calculator application using HTML, CSS, and JavaScript that accurately calculates taxes based on both the old and new tax regimes.
- The application provides users with the flexibility to compare and calculate taxes under different tax systems, enabling informed financial decision-making.
- mayanksingla34.github.io/Tax_Calculator/

Ethical Hacking

- Executed ethical hacking projects on Kali Linux using Python, showcasing expertise in MITM, ARP/DNS spoofing, XSS, SQL injection, and Metasploit.
- Developed diverse tools like backdoor, code injection, keylogging, network scanning, and packet sniffing, demonstrating proficiency in vulnerability identification and proposing security measures.
- github.com/mayanksingla34/Ethical-Hacking

TOOLS & TECHNOLOGIES

Languages:

C#, C/C++, Java, Python

Web:

ASP.NET, HTML, CSS, JavaScript, NodeJS, Angular JS

Frameworks/Libraries:

Entity Framework, Express, Bootstrap, jQuery, W2UI

Databases:

MSSQL, LINQ, SQL, MongoDB

Tools:

Azure DevOps, Git, Linux, Visual Studio, Visual Studio Code, MS Power Automate, NetBeans

Security:

Buffer Overflow, Shell Shock, PE Code Injection, MITM, ARP Spoofing, DNS Spoofing, XSS, SQL Injection, Metasploit