MAYANK SINGLA

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PROFESSIONAL EXPERIENCE

SMART ENERGY WATER   **Noida, Uttar Pradesh**
Product Engineer (.NET)   **JULY 2022 – PRESENT**
- Engineered a high-performing RESTful ASP.NET Web API leveraging Entity Framework & LINQ, ensuring seamless data retrieval and modification.
  - Implemented authorization and authentication mechanisms to ensure secure access and protect sensitive data.
  - Enhanced API performance by optimizing query processes and data retrieval methods, reducing the average response time by 40% and increasing overall system efficiency by 25%.
  - Managed the transition from SQL-based stored procedures to a LINQ-based API, resulting in a 50% improvement in performance and a significant boost in query efficiency.
- Executed development of a billing module utilizing ReactJS, enabling payments using Card, Bank, PayPal, GPay, and ApplePay; the platform now supports over 50,000 transactions daily.
  - Integrated payment gateway functionalities for providers such as Chase, PayPal, SAP, and Kubra, ensuring seamless transaction processing and a superior user experience.
- Provided production support for Payments, AutoPay Scheduler, and IVRToPay, enhancing system availability, and promptly resolving issues and implementing enhancements.
  - Enhanced the performance of the Auto Pay Scheduler and Reconciliation Scheduler, reducing processing time by 40% and decreasing error rates by 30%.

SMART ENERGY WATER   **Noida, Uttar Pradesh**
Product Engineering Intern (.NET)   **JAN 2022 – JUNE 2022**
- Created 10+ customizable Smart Templates for work orders, inventory, and assets using HTML, CSS, JavaScript, jQuery, Bootstrap, and ASP .NET, incorporating drag-and-drop functionality, reducing template creation time by 30%.
- Integrated w2ui for interactive grid capabilities and Highcharts,, increasing user engagement with data insights by 40%.
  - Enabled export options (PDF, Excel, HTML, CSV) for data grids, improving data accessibility by 25%.
- Implemented a interactive map with LeafletJS, featuring marker clustering and lasso functionalities, enhancing geographical data visualization efficiency by 50%

EDUCATION

THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY   **Patiala, Punjab**
Bachelor of Engineering, Computer Engineering [7.5 / 10]   **2018-2022**

PROJECTS

Fresco ([View Demo](#))
- Developed a donation system using Node.js, Express, and MongoDB, with features like user sign-up, peer-to-peer donations, admin controls, and informative campus pages.

Tax Calculator ([Visit Website](#))
- Built a tax calculator app in HTML, CSS, and JavaScript to compute taxes under both old and new regimes, providing users with flexible comparison options.

Ethical Hacking ([View Project](#))
- Conducted Ethical Hacking projects on Kali Linux using Python, specializing in MITM attacks, ARP/DNS spoofing, XSS, SQL injection, and Metasploit.
- Created tools for backdoor creation, code injection, keylogging, network scanning, and packet sniffing, demonstrating expertise in vulnerability identification and proposing robust security measures.

TECHNICAL SKILLS

- Programming Languages: C/C++, C#, JavaScript, HTML, CSS
- Web Development: ASP .NET Core, Entity Framework, ReactJS, jQuery, Bootstrap, Node.js, Express, LINQ
- Database Management: MS SQL Server, MongoDB, PostgreSQL
- Tools & Technologies: Visual Studio, Git, Azure, Postman, Jira

ADDITIONAL INFORMATION

- Awards: Received the "Award of Excellence" semi-annually for 4 consecutive periods at Smart Energy Water.