# MAYANK SINGLA

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## PROFESSIONAL EXPERIENCE

**SMART ENERGY WATER**                                                    **Noida, Uttar Pradesh**
**Product Engineer**                                                          **JULY 2022 - PRESENT**

- Developed RESTful ASP.NET Web API with Entity Framework & LINQ for seamless data retrieval/modification.
  - Incorporated authorization for secure access, data protection & reliable functionality.
- Enhanced API performance by implementing optimizations that reduced response times and latency, resulting in a 40% decrease in average response time and a 25% improvement in overall system efficiency.
- Led the successful migration of SQL-based stored procedures to a LINQ-based API, resulting in a remarkable performance enhancement of up to 50%.
- Successfully integrated payment gateway functionality for major providers including Chase, PayPal, SAP, Kubra, and others, ensuring seamless transaction processing and enhanced user experience.
- Provided production support for Payments, AutoPay Scheduler, and IVRToPay, ensuring system availability, prompt issue resolution, and implementing fixes/enhancements.
  - Significantly enhanced the performance of the Auto Pay Scheduler and Reconciliation Scheduler, leading to a 40% reduction in processing time and a 30% decrease in error rates.

**SMART ENERGY WATER**                                                    **Noida, Uttar Pradesh**
**Product Engineering Intern**                                              **JAN 2022 - JUNE 2022**

- Created customizable Smart Templates for work orders, inventory, and assets using HTML, CSS, JavaScript, jQuery, Bootstrap, AngularJS and ASP.NET. Incorporated drag-and-drop functionality for adding, editing, and reordering fields.
- Integrated w2ui for dynamic grid capabilities and Highcharts for interactive data visualization. Enabled export options (PDF, Excel, HTML, CSV) for data grids, facilitating easy data accessibility. Implemented a dynamic map with LeafletJS, featuring marker clustering and lasso functionality for geographical data visualization.

## EDUCATION

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

## PROJECTS

*Fresco*
- Created a donation system with Node.js, Express, and MongoDB, featuring user sign-up, peer-to-peer donations, admin controls, and informative campus pages.

*Tax Calculator*
- Built a tax calculator app in HTML, CSS, and JavaScript, accurately computing taxes under old and new regimes, empowering users to make informed financial decisions with flexible comparison options.

*Ethical Hacking*
- Performed ethical hacking projects on Kali Linux with Python, demonstrating expertise in MITM attacks, ARP/DNS spoofing, XSS, SQL injection, and Metasploit, alongside developing various tools for backdoor creation, code injection, keylogging, network scanning, and packet sniffing, showcasing proficiency in vulnerability identification and proposing robust security measures.

## TECHNICAL SKILLS

- C#, C/C++, Java, Python, ASP.NET, HTML, CSS, JavaScript, NodeJS, Angular JS, Entity Framework, Express, Bootstrap, jQuery, W2UI, MSSQL, LINQ, SQL, MongoDB, Git, GitHub, Azure, Postman.

## ADDITIONAL INFORMATION

- Awards: Won Award of Excellence 3 times during 2 years at Smart Energy Water.