# Sudhanshu Poonia

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## Education

**Thapar Institute of Engineering and Technology, Patiala**                    Graduation: Jun. 2023
B.E. in Computer Science and Engineering                                                *GPA: 7.62/10*
Relevant Courses: **Operating Systems**, **Object Oriented Programming (C++)**, **Database Management Systems**, **Computer Networks**, **Algorithms and Data Structures I & II (C++)**

## Experience

**MAQ Software**                                                                                    Dec. 2023 – Present
*Software Engineer 1* (**Node.js**, **Python**, **SQL**, **PySpark**, **Power BI**, **Azure Front Door**, **React**, **TypeScript**)

- Designed and developed backend services in **Node.js**, including a custom **SQL Visualizer** leveraging `node-sql-parser` to convert SQL queries into visual graph structures for debugging and analysis.
- Built and optimized scalable **data ingestion pipelines** using **Python**, **SQL**, and **PySpark**, enabling real-time analytics and reducing **Power BI** refresh latency by **35%**.
- Configured and managed **Azure Front Door** for secure traffic routing, custom domain integration, and backend enforcement, improving performance and resilience of internal applications.

**TimelyAI**                                                                                        Sept. 2023 – Dec. 2023
*Software Engineer* (**Python**, **AWS**, **PostgreSQL**, **Git**, **GitHub**)

- Architected and implemented scalable microservices and an automated image processing service using **AWS Lambda**, **CloudWatch**, **S3**, **Athena**, and **Python's Pillow library**, integrated with the **FIGMA API**.
- Improved system reliability through enhanced error handling and monitoring, reducing service interruptions by 40%.

**Samsung R&D, Noida**                                                                          Jan. 2023 – Jun. 2023
*Research and Development Intern* (**Java**, **Kotlin**, **Android**, **JUnit**, **Mockito**)

- Implemented comprehensive unit testing using **Mockito** and **JUnit** for a Clock Application, achieving 80% code coverage while collaborating with teams to add new features using **Java** and **Kotlin**.

## Projects

**Better Extensions**                                                                              Nov. 2024 – Present
*Suite of Chrome Extensions for Enhanced Browsing Experience* (**React**, **JavaScript**, **Chrome API**, **TailwindCSS**)

- Developed three React-based Chrome extensions—Search With, Better New Tab Lite, and Better Skip Ads Button—delivering one-click search, productivity tools, and ad-skipping functionality. Achieved a combined user base of **150+ weekly active users**.

**Subscription Price Index**                                                                      June 2025 – Present
*Web App to Compare Streaming Prices Across Countries* (**Next.js**, **TypeScript**, **TailwindCSS**)

- Built a pricing comparison tool for streaming services with country-wise breakdowns, VPN-friendly indicators, and filtering options to aid users in choosing cost-effective subscriptions.
- Developed a fully client-side web application using **Next.js**, **TypeScript**, and **TailwindCSS**, with future plans to add server-side rendering for enhanced performance.

## Certifications, Skills and Achievements

**Skills:**

Full-stack expertise in front-end development (**React.js**, **TypeScript**, **JavaScript (ES6+)**, **HTML5**, **CSS3**, **TailwindCSS**, **Material-UI**, **Redux**) and back-end development (**Python**, **Java**, **Node.js**, **SQL**, **PostgreSQL**, **PySpark**, **ETL**), complemented by proficiency in version control (**Git**, **GitHub**), API development, cloud deployment (**AWS**, **Azure**), and technical documentation.

**Certifications:**

- Microsoft Certified: Fabric Analytics Engineer Associate
- Problem-Solving (Intermediate) by HackerRank
- Python Basics for Data Science by IBM

**Achievements:**

- Secured 268 Global Rank in Reply Standard Code Challenge 2022
- Secured 242 All India Rank in Google HashCode'22
- Secured 2nd Rank in Digital Village Hackathon by Google DSC, TIET