# PRABHMEET SINGH K

*Software Development, Full-Stack Web Development*

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## EDUCATION AND SCHOLASTIC ACHIEVEMENTS

| Program | Institute | % / CGPA | Year |
|---|---|---|---|
| B. Tech in Industrial Engineering | Punjab Engineering College, Chandigarh | **7.20/10** | 2024 |
| Class XII (BIEAP) | Sri Venkateswara College, Visakhapatnam | **92.8**% | 2020 |
| Class X (ICSE) | De Paul School, Visakhapatnam | **94.4**% | 2018 |

## RELATED COURSEWORK

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|---|---|---|
| Web development (Full Stack) | Database Management Systems (Relational) | Data Structures and Algorithms |
| Computer Networks | Artificial Intelligence and Machine Learning | APIs and Interfaces |

## SKILLS

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|---|---|
| **Programming Languages** | C++, Java, SQL, HTML, Cascading Style Sheets (CSS), Javascript |
| **Softwares and Libraries** | MySQL, PostgreSql, NodeJs, NextJs, Bootstrap, Tailwind, ReactJS, Canva, Figma |

## PROJECTS

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|---|---|
| **HEALBOOK- Web Application** | • Designed and created a responsive and dynamic healthcare web application that streamlines medical record management on a patient and healthcare facility level.<br>• Leveraged a robust tech stack (Node.js, Ruby, MongoDB, HTML, CSS, React) to centralise data, improve workflows, and enhance patient care while reducing administrative burdens. |
| **Autonomous Water Debris Collector** | • Collaborated with a 3 member team to design and develop a unique boat-type mechanism over 2 months. It could autonomously collect debris and navigate on water surfaces using proximity sensors.<br>• We **patented** the unique design (2 international design patents) that was achieved through optimising the weight-to-performance ratio and implementing an effective, well-planned design. |
| **TRENZING- Web Application (in progress)** | • Used API data from various social media websites to create a metric (combining Google Trends, Netflix, Prime Video, Tweets volume) to compare and create a comprehensive TOP 10 list for movies and shows. Used Machine Learning to create a feature that returns the movie name if the user inputs part of the plot.<br>• Coded both the front-end (using HTML/CSS/ReactJS) and back-end (Ruby, SQL) to create a dynamic website that turns raw real time data (from various sources using APIs) into useful metrics. |
| **Sales Data Analysis and Forecasting using various ML techniques** | • Used machine learning tools including SARIMA, Prophet, and XGBoost on a large test dataset by first processing and cleaning the data and then performing an in depth exploratory data analysis on the data.<br>• Conducted comprehensive performance evaluations using metrics such as MAE, RMSE, and MAPE, on our dataset to find and compare the effectiveness and specificity of each technique in various regards.<br>• Contributed descriptive insights into the reliability and precision of each ML technique in predicting sales trends to aid in optimising data-driven decision-making in various situations. |

## EXPERIENCE

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| **Associate Software Trainee**<br>**Incture Technologies**<br>**(January 2024 - May 2024)** | Completed numerous assignments related to Spring and Spring Boot applications, gaining a strong foundation in core Java principles and best practices. Through these projects, I gained proficiency in error handling, API development, and MySQL, enabling me to create robust Spring applications. |
| **Design Lead , Front-end Web Dev**<br>**AtomInfra Technologies**<br>**(October 2024 - Present)** | Took charge of Design and also helped in developing and maintaining responsive front-end code using modern web technologies (Nextjs, Reactjs, TailwindCSS, typescript). Ensured cross-browser compatibility and optimised performance for various devices and screen sizes. |

## POSITIONS OF RESPONSIBILITY/ ORGANISATIONS

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|---|---|
| **CDGC (Placement Cell at PEC)** | Training/ Placement Class Representative (*March '22-May '24*) |
| | • As the Training Class Representative, assisted in placement and internship coordination.<br>• As the Creative/ PR team Sub-head, helped in organising events such as the Pre-placement training (PPT) and Open-House events. |
| **VOYAGERS** | Actively participated in numerous informal events and presentations on a wide range of topics. These experiences significantly improved my interpersonal, communication, and teamwork abilities |

## EXTRA-CURRICULAR ACTIVITIES

- Avid enjoyer of competitive coding and frequently took part in coding contests and solved 100+ problems on Leetcode.
- Passionate to teach and hence have tutored various kids of class 8, 9,10,11 in maths, science (ICSE).