Jatin Gehlot

Bachelor of Technology
in Mechanical Engineering
Indian Institute Of Technology, Ropar

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.2	2018-2022
Senior Secondary	Rajasthan Board of Secondary Education	90%	2017
Secondary	Rajasthan Board of Secondary Education	78.6%	2015

EXPERIENCE

- **Singularity Dynamics** *June 2022 - June 2022*
  Software Developer Bangalore,Karnataka
  - Lead developer of a full-stack product that provides automatic detection of bugs in the software of Integrated Circuit based products.
  - Created a desktop app from scratch using **QML** and **C++** and developed the backend using **Node.js** with **SQL** database.
  - Worked on application of concepts such as **MVC architecture**, **Graphs** , **2-D Coordinate geometry** , **Multi-threading** , **Smart pointers**

- **Railway-Registration Portal** *June 2021 - July 2021*
  Research Intern Rupnagar,Punjab
  - Created a portal for railway registration system using Graph Database for searching algorithm.
  - Optimized the SQL table(in PostgreSQL) for faster response of database by creating dynamic tables from the backend.
  - Built GraphDB database to enable search of direct and indirect trains between two stations.
  - Faster responsive React.js used as front and Node.js with Express.js used as back-end of server.
  - EXPOSURE: **Postgresql, Express.js, React.js, Node.js, GraphQL,Neo4j, (PERNG)**

PROJECTS

- **Java Snake Game** *Jan 2023 - Jan 2023*
  Java Project **Github**
  - Created a Java Snake game, reminiscent of classic Nokia mobile games.
  - Implemented core features like snake movement, collision detection, and score tracking
  - Showcasing strong object-oriented programming skills and attention to detail.
  - EXPOSURE: **Java**

- **Faculty Information Management Portal** *Mar 2021 - Apr 2021*
  MERN Stack Project **Github**
  - Developed a Full Stack Solution for Management of faculty information based on database system, that have individual login, password, Dashboard, specialized dashboard and can process leave application, project information management, hiring of Associates
  - Used PostgreSQL for building backend Relational Database and MongoDB for Faculty Portal
  - EXPOSURE: **SQL(Postgresql), Stored Procedures, Triggers, Node.js, EJS, MongoDB**

- **Optimized SUDOKU Solver** *July 2020*
  Python Project **Github**
  - Developed and implemented Sudoku solver based on Backtracking algorithm, Constraint satisfaction propagation and Forward checking.
  - Used domain restriction for each cell in Sudoku and applied Constraint satisfaction and successfully reduced computation by 80% for average case.
  - EXPOSURE: **Python**

TECHNICAL SKILLS

- **Programming Languages**: C/C++, Python, Java
- **Web Development**: HTML, CSS, Javascript, Node.js, Express.js, React.js
- **DataBase Managment**: Postgre(SQL), Mongoose(MongoDB), Noe4j(GraphQL)
- **Softwares**: Solidworks, Ansys, VScode, Postman

KEY COURSES TAKEN

- **CSE & Maths**: Algorithm & Data Structure, DataBase Management System, Deep learning for physical systems, Operating Systems, Linear Algebra, Advance Calculus