

EDUCATION

Chandigarh University, Punjab, India

2021 - 2025

- Bachelor of Engineering (B.E.) in Computer Science

EXPERIENCE

Software Developer Intern

09/2023 - 10/2023

Bhaskaracharya National Institute for Space Applications and Geo-Informatics (BISAG-N)

New-Delhi

- Engineered high-performance **REST APIs** utilizing **Spring Boot** and **MVC frameworks**, leading to improved load times by 30% and enhancing user experience for over 2,000 daily active users.
- Coordinated efforts among cross-functional groups to **optimize database queries**, resulting in a reduction of query execution time by over two minutes per transaction on critical processes within the web applications.

POSITIONS OF RESPONSIBILITY

Events Team Lead

01/2022 - 01/2023

HackOverFlow Society

Chandigarh University

- Led the coordination of logistics for **four major events** in 2022, utilizing feedback from over **200 post-event surveys** to identify key areas for improvement and enhance future planning strategies.
- Streamlined **finance** workflows, reducing record-processing time by **2 hours** weekly.

TECHNICAL COMPETENCIES

- **Languages:** C/C++, JavaScript, HTML, CSS, Python, Java
- **Databases:** SQL, PostgreSQL, MongoDB, Oracle, Git
- **Libraries/Frameworks:** Spring Boot, Spring MVC, ThymeLeaf
- **Software Development:** Object-oriented programming, Data Structures, Algorithm, Analysis
- **Certifications:** HackerRank Certified Software Engineer, **Microsoft Certified** Power BI analyst associate.

PROJECTS

Interpreter for Lox Scripting language | C++

- Developed a **custom interpreter** for the **Lox** scripting language, achieving improvements in execution speed by implementing optimized parsing and advanced memory management techniques using C++.
- Implemented **lexical analysis**, constructed an **AST**, and built a **tree-walk** interpreter to execute Lox code.

Links Saver | JavaScript

- Designed a **chrome extension** that simplified the **saving and retrieving of current tabs with external links**, cutting down average resource search time by 30%, enhancing user efficiency during online sessions.
- Addressed **link clutter**, improving **productivity** and reducing search time for accessing links.

Suddhta | Spring Boot, PostgreSQL, JavaScript

- Developed a maven web application using the **Spring Boot framework** to facilitate **fresh juice delivery**, allowing users to **customize juice recipes** and ingredient options on-demand.
- Designed and optimized a **PostgreSQL database schema** to efficiently store user profiles, juice recipes, and order history, ensuring **data integrity** and rapid retrieval.

Sahand Estate | React, Redux, Node.js, Express and MongoDB

- Created a full-stack real estate application using the **MERN** technology suite that enhanced property listing management; reduced update time on new rentals by an average of two hours each day.
- Engineered a comprehensive **CRUD** functionality for property listings, enabling seamless updates, image uploads, and effective management through user profiles.