Upasana Singh

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EXPERIENCE

Trainee
Excellence Technologies   **July 2023 – October 2024, Mohali, IN**

· Implemented **backend** during a 4-month internship, utilizing Spring Boot and Hibernate to enhance user experience for the Cafe workers.
· Up-skilled to **Advanced Java** Concepts along with **Spring boot framework**, **MySQL** and **JSP.**

Coding Instructor
Brightchamps Tech Pvt. Ltd.   **April 2021 – September 2021, Chandigarh, IN**

· Mentored a number of middle and high-school students for coding by giving 1-1 sessions.
· Taught Scratch, Python and thunkable programming languages to the students.

Internship
CSIR-CSIO   **January 2020 – June 2020, Chandigarh, IN**

· Developed a game called Exergame for physical exercise in Unity 3d and Xbox kinect.
· Game can live report the exercise score to the user on screen.

PROJECTS

MyBNB
github.com/upasanasingh14/mybnb · October 2024 –November 2024

· Wrote an airbnb like application using **ExpressJS** for backend, **MongoDB** for database and **EJS/CSS** for frontend.
· All the **CRUD** operations were implemented for listings.

Cafe Management Application
Excellence Technologies · github.com/upasanasingh14/CafeManagementApp · July 2023 – October 2024

· Developed entire backend of the Cafe Management Application in **Java** using **Spring Boot Framework**.
· Designed **CRUD** APIs for product, dashboard and user services.
· Application supported basic username/password based **authentication**.

Slotted Wheel Microstrip Patch Antenna based RF Energy Harvesting System
Panjab University · January 2019 – December 2019

· Was part of team for "Slotted Wheel Microstrip Patch Antenna based RF Energy Harvesting System" (Patent: 201941017384).
· Designed "Antenna" using HFSS Software during 6th and 7th semester.

EDUCATION

Master in Science (Information Technology)
Lovely Professional University · Jalandhar, IN · 2024 · 8.7/10

· Key Courses: Data Structure, Computer Organization & Architecture, Computer Graphics, AI, System Software, Java & C#

B.Tech (ECE)
Panjab University · Chandigarh, IN · 2020 · 7.15/10

· Key courses: MATLAB, DSP, Signals & Systems, Microprocessors, Computer Networks, VLSI

CERTIFICATIONS

Advanced Java + Data Structures + Algorithms
ICAII · 2023

· Certified for Advanced Java, Data Structures and Algorithms.

SKILLS

Front End: HTML, CSS, JavaScript and React.
Back End: C++, NodeJS, ExpressJS, Java, Spring Boot Framework.
Database: MongoDB, MySQL