# HARPREET SINGH ROOPRA

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## EDUCATION

2023 – Present: Leeds Beckett University – In Penultimate Year of Study
BSc (Hons) Computer Science with Honors (on target to achieve 2:1 or above)
**modules taken:** (Software Projects [69], Programming [81], Web Development [52], Databases and System Modelling [96])
**modules currently taking:** (Software Systems Development, Operating Systems in Practice, Computer Network Architectures, Applied Machine Learning, Team Project, Databases Systems)

## PROJECTS (More projects available on GitHub, but the standout ones are listed below.)

**Performance Tracking & Management System App | GitHub Link: Performance Tracking and Management System**
**Tech Stack:** MySQL, PHP, CSS, HTML, JavaScript

Developed a **web-based system** to streamline employee performance management with **secure authentication, performance dashboards, encrypted databases, and media uploads**. Increased efficiency by **40%** for research officers through digitized performance tracking.

**Criminal Record Management System | GitHub Link: Criminal Record Management System**
**Tech Stack:** Oracle Apex, PL/SQL, SQL

Designed a **database-driven system** for crime reporting and analysis with **dynamic reporting tools, interactive dashboards, and secure user authentication**.  Automated triggers and validation mechanisms ensured **data integrity** and improved **decision-making for law enforcement**.

**Smart Door Security System | GitHub Link: Smart Door Security System**
**Tech Stack:** Raspberry Pi, Python, Camera Module 2, Motion Sensor, Solenoid Lock, LED light, 5V Relay

Built an affordable **IoT-based security system** using **facial recognition** and **motion detection**. Integrated a **PIR motion sensor**, Raspberry Pi **Camera**, and **solenoid lock** for secure access control. Implemented **real-time alerts** for unrecognized entries, providing 24/7 monitoring for small businesses and apartments.

**Smart Security App | GitHub Link: Smart Security App**
**Tech Stack:** React Native, Expo, JavaScript, Firebase, SQLite, Tailwind CSS.

Developed a cross-platform **mobile app** to complement the Smart Door Security System. Enabled **real-time notifications**, access management, and system monitoring. Integrated **Firebase for authentication** and **SQLite** for local data storage.

## SKILLS

**Programming Languages:** Java, C#, Python, PHP, JavaScript, SQL, PL/SQL, R, TypeScript.
**Frameworks & Libraries:** React Native, Node.js, Express.js, Tailwind CSS, Bootstrap, Pandas, NumPy.
**Database Management**: MySQL, Oracle Apex, SQLite, NoSQL, MongoDB, DDL, PL/SQL, Stored Procedures, Triggers, Indexing, Query Optimization.
**Tools & Platforms**: GitHub, Git, Linux (Ubuntu, CentOS), Firebase, Raspberry Pi.
**Cloud Technologies:** AWS (EC2, S3, Lambda), Microsoft Azure, Google Cloud Platform (GCP).
**Concepts:** Object-Oriented Programming, Data Structures, Algorithms, Design Patterns, RESTful APIs, Agile Methodology, Scrum, IoT, Machine Learning.
**Testing & Debugging**: Unit Testing, Integration Testing, Selenium, JUnit, PyTest, Chrome DevTools, Visual Studio Debugger

## SOFT SKILLS

**Communication:** Clear and concise in explaining technical concepts to non-technical audiences.

**Collaboration:** Effective team player with experience leading small groups and mentoring peers.
**Problem-Solving:** Proven ability to identify issues and implement practical solutions.
**Adaptability:** Quick learner, comfortable with new tools and changing project requirements.
**Leadership:** Led software teams, ensuring timely delivery and high performance.

## PROFESSIONAL EXPERIENCE

**2023 October – 2024 January   Curry's PLC | Sales Colleague**
- Managed and optimized the computing area, increasing customer engagement and driving a 30% sales boost.
- Improved team collaboration and introduced process efficiencies, reducing wait times and enhancing customer experience.
- Met strict deadlines, ensuring faster target completion.

**2024 February – Present     Microsoft PLC| Product Advisor**
- Resolved tech issues, improving customer experience and showcasing strong problem-solving skills.
- Adapted quickly to new tools and emerging tech, staying ahead in a fast-paced environment.
- Delivered tailored tech recommendations, increasing customer satisfaction and sales by 20%.