

# HARKIRAT SINGH

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## EDUCATION

### BACHELOR OF COMPUTER SCIENCE

2022 - 2025

## COURSEWORK

### CURRENT SEMESTER (AUTUMN 23)

Foundations of Information System  
Program Design and Development (Java)  
Human Computer Interaction  
System Analysis and Design

### STUDIED (YEAR 22)

Programming Fundamentals (Java)  
Object Oriented Programming (C++)  
Database Design and Development (SQL)  
Computer Networking  
Computer Organisation and Architecture - (MIPS)  
Discrete Mathematics  
Statistical Decision Making  
Principles of Professional Communication

## TECHNOLOGIES

### BRIEF OVERVIEW

- **Self learning:**
  - Flutter / Dart • Python • HTML • CSS • JavaScript • Firebase • React JS • Next JS • SQL
  - Solidity • Node JS • MongoDB.
- **In Coursework:**
  - Java • C++ • SQL.

### AMPLIFIED VIEW

#### FLUTTER / DART | MOBILE APP DEVELOPMENT (IOS & ANDROID)

- **Learning Flutter/Dart by creating basic to advanced mobile apps.**
- **Key Concepts:**
  - Flutter State Management • Native Flutter Widgets • Custom Widgets • Responsive UI
  - Native & third party plugins • Flutter Animations • Data Fetching from APIs • Firebase Integration.

#### SOLIDITY / BLOCKCHAIN | WEB3 DEVELOPMENT

- **Learning Solidity, Ethereum, Polygon (Matic), React JS, Next JS and Web3 JS.**
- **Key Concepts:**
  - NFT Image Generation (Python Script) • Deployment of NFTs to Polygon & Ethereum chains • NFT minting dApp (React JS, Next JS & Web3 JS) • Integration of Metamask or other wallet providers.

## PROJECTS

### MOBILE APPS

- **LIVE DARBAR:**
  - A very smooth and responsive Flutter app to listen to live ceremonies from GOLDEN TEMPLE, AMRITSAR, INDIA.
- **APP CLONES (UI ONLY)**
  - Whatsapp clone • Google Docs Clone
- **FULL FLEDGED CLONES**
  - Reddit • Amazon • Twitter • Instagram • Tiktok • Google Docs • Twitch • Zoom clone.
- **VARIOUS OTHER BASIC TO ADVANCED APPS.**

### WEB 3 AND WEBSITES

- **CRYPTOSARDARS.COM:**
  - A full fledged NFT collection dedicated to Sikhism • A minting dApp made in React JS and Next JS.
- **SRIDARBARSAHIB.LIVE:**
  - Web version of Live Darbar Flutter App made with HTML, CSS, Bootstrap & JavaScript.

## EMPLOYMENT

### AMAZON OPERATIONS AND LOGISTICS | T2 - AMAZON ASSOCIATE JUN 2022 - CURRENT

## PERSONAL INSIGHTS

- **LIFE's MISSION:** Learning and creating better technologies for the GREATER GOOD of Humanity.
- **LIFE's FUEL:** Honesty, Kindness & creating something new.
- **LIFE's WAY:** Creating wealth for the first half of my life & giving it all back for the rest of life.