Sidharth Mukherjee

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Education

VIT Bhopal University, Bhopal, MP
Bachelor of Technology in Computer Science, | CGPA 8.2/10 | Sept 2023- Jun 2027

Vishwa Bharti Public School, Noida, UP
Senior Secondary (Class 12), CBSE 90% | Apr 2022- Mar 2023
Secondary (Class 10), CBSE 80% | Apr 2020- Mar 2021

About

Passionate Computer Science student with a strong interest in Spring framework, Android development and Cloud technologies. My passion for creating and building new projects fuels my dedication to learning new tools

Projects

Only AI Arts | Spring Boot, Vue.js, PostgreSQL, Docker

- Created a **Full-Stack Application** comparing **AI and Human Art** to create rankings of AI Models and Art Software
- Developed using **Spring Boot (Java)**, integrating **Cloudflare R2** for storage and **Google OAuth** login
- Used **Vector Search** in **PostgreSQL** to implement a search system
- Iterated on multiple designs in **Framer** to create a responsive Vue single page application.
- Wrote a **CI/CD pipeline using GitHub Actions** to build a **Docker image** and deploy it to an **Azure Virtual Machine**

Train Traffic Simulator | Java, Maven, Swing

- Engineered a customisable **Simulation Tool** for managing **rail traffic**, similar to one used by railway controllers
- Provides intuitive visualization of flow of rail traffic and patterns
- Implemented realistic **signalling system and interlocking logic**, with a scheduling system similar to real-world
- Allows users to create **any station design or traffic pattern** using **XML** file with custom attributes
- Created an installer and executable using **JPackage** and distributed it on SourceForge

My Braille |Android, Java, Gradle

- Created an Android application to allow the visually impaired to learn **Braille** by providing touch sensation using **phone haptics**
- Designed a simple and accessible UI in **Figma**, following **Material Design** guidelines
- Added audio recordings of words, characters and sentences for aid and self-correction

Certifications

Certificate of Presentation – SENNET 2025: My Braille
NPTEL Cloud computing certification: Cloud Computing

Technical Skills

Languages: Java, Kotlin, C, JavaScript
Frameworks: Spring Boot, Vue.js, Android SDK
Tools: Git, Docker, Postman, Maven, Gradle, JPackage