

# Shivam Agrawal

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## EDUCATION

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- **VIT Bhopal University**  
*B.Tech Computer Science and Engineering; CGPA: 8.71* *Aug 2023 – May 2027*
- **Navayuga Radiance Senior Secondary School**  
*Secondary School; CBSE: 79.4%* *Apr 2022 – May 2023*
- **Lucknow Public School and Colleges**  
*High School; ICSE: 97%* *Apr 2020 – May 2021*

## RELEVANT COURSEWORK

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Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Architecture and Organization

## PROJECTS

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- **Study Companion App** *[Java, Gemini API, Firebase]*
  - Built an AI assistant using Gemini API (with a median response time of 393 ms) for answering study-related questions.
  - Integrated To-Do List, Study Timer, and Schedule Maker to help students stay organized.
  - Implemented Firebase Authentication and Firestore Database for secure login and chat history storage.
- **DigiPIN App** *[Kotlin, Render, Google Maps]*
  - Forked and deployed the official DigiPIN API to Render, handling an average of 150 requests per day (avg. response time: 240ms).
  - Integrated it into an app that allows users to generate a DigiPIN from their current location and fetch coordinates for any given DigiPIN using Google Maps.
- **LeetCode Profile API** *[Kotlin, GraphQL, Postman]*
  - Reverse-engineered LeetCode's internal GraphQL API to fetch user stats using their username.
  - Average response time of 246ms.
  - Successfully tested queries in Postman; a Kotlin-based app is in development.

## TECHNICAL SKILLS

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- **Languages** Java, Kotlin, Go, C++
- **Frameworks** Android SDK, Firebase, Jetpack Compose
- **Libraries** Retrofit, Volley, Firebase Authentication, Firestore, Coroutines, Lottie, Material Components
- **Dev Tools** Git, GitHub, Google Cloud Platform, Android Studio, Postman, Firebase Console, Render, UptimeRobot, VS Code, IntelliJ IDEA

## EXTRACURRICULAR ACTIVITIES

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- **Open Source Contributor – OneBusAway (Open Transit Software Foundation)**
  - Identified issues and proposed bug fixes on their GitHub repository.
  - Fixed UI accessibility by increasing touch target sizes to a minimum of 48dp and improved contrast of widgets.
  - Collaborated with project maintainers to suggest improvements. Gained experience with large open-source code bases, Git workflows, and community collaboration.
- **E-Cell – VIT Bhopal**
  - Developed a QR code-based attendance system for efficient entry of over 300 students and reducing check-in time by 15%.
  - Maintained the website for event registration, handling over 300 registrations.
  - Led a team of 7 members ensuring smooth flow of the event.