

# VIVEK KUMAR

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## Education

### DY Patil School of Engineering and Technology

B.Tech - Computer Engineering - CGPA: 8.78

Nov 2021 – Jun 2025

Pune, Maharashtra

### Vidya Bharati Chinmaya Vidyalaya

AISSCE - PCM and CS - Percentage: 90.6

Apr 2018 – May 2020

Jamshedpur, Jharkhand

## Experience

### The Spark Foundation

Apr 2024 – May 2024

Android Developer Intern

Remote

- Developed an **Android** banking application, implementing more than **5 core modules** for transaction processing.
- Engineered an efficient CRUD operation framework using **SQLite** to manage over **10,000** user records in real-time.
- Integrated the **Razorpay** payment gateway to handle over **100** secure transactions per day, storing transaction history for audit and compliance purposes.
- Tech Stack: **Java, SQLite, XML**

### Amdocs (InUnity)

Jan 2023 – Jun 2023

Innovation Project Intern

Pune, Maharashtra

- Spearheaded the development of an internal tool for tracking **temperature and humidity** in the **Onion Storage System**, enabling real-time data monitoring and editing, resulting in a **25%** reduction in onion spoilage during storage.
- Authored multiple **Arduino**-based programs for team use, interfacing with the **BLYNK cloud**. Conducted data computations based on specific requirements, utilizing **DHT11 sensors and ESP8266 modules** for data sensing.
- Tech Stack: **C++, Figma, Arduino, BLYNK Cloud**

## Projects

### Indoor Path | C#, ARCore, Unity | Source Code

Jul 2024

- Designed an **ARCore-based** indoor navigation system, which reduces route search time by **12%**.
- Collaborated on **full-cycle development**, implementing features that **increased** UI and system efficiency.
- Authored interactive maps using **Unity**, improving accuracy by **15%**.

### Multi Threaded Webserver | Java, Concurrency Lib., Socket, HTTP/HTTPS | Source Code

Feb 2024

- Coded a **multi-threaded web server** using Java, capable of handling **100** concurrent client requests.
- Reduced latency by **30%** through the implementation of **socket programming**, enhancing client-server interaction.
- Parsed and managed **1000+** **HTTP** requests per second, ensuring reliable HTTP/HTTPS protocol handling.

### Seat Serve | Java, MongoDB, Gradle | Source Code

Oct 2023

- Implemented a Java-based **ticket-booking backend** using MongoDB, reducing response time by **30%** through tuning.
- Created RESTful API to manage **500+** **concurrent requests/sec** for bookings, cancellations and availability checks.
- Integrated JWT authentication and role-based access, with asynchronous processing boosting booking efficiency by **25%**.

## Technical Skills

**Languages:** Java, C/C++, Kotlin, JavaScript, SQL

**Libraries/Frameworks:** SpringBoot, JavaFx, Reach.js, XML, Socket.io

**Technologies:** Git and Github, Postman, Android SDK, REST API, Figma, MySQL, Firebase

**CS Fundamentals:** DSA, Low-Level Design, Computer Networks, OOPs, Cloud Computing, OS, DBMS

## Achievements

- Codechef** Starters 54 : Global Rank **276** out of 12000+ participants.
- Leetcode** Weekly Contest 373 : Global Rank **372** out of 15000+ participants.
- Answered over **120+** **questions** on the **Chegg platform**, demonstrating strong problem-solving and subject expertise.
- Solved over **400+** **DSA** problems across various platforms, showing problem-solving abilities.
- Awarded as the **best Research Paper** in 1st **National Conference RISES 2024** organized by DYPU.

## Position of Responsibility

- Antarang** : Designing Coordinator of Annual Fest of DY Patil, Pune
- DYPU KRITI**: Researcher of the official KRITI club of DYPU.
- IT Colloquium**: Lead as designing co-ordinator of the event, a inter school Project expo with **200+** footfalls.