

VEDANT RATHORE

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Education

- Prestige Institute Of Engineering Management and Research, Indore (4th year)** Aug 2020 - Jul 2024
Btech- Computer Science Engineering (CSE) , CGPA : 8.08

Skills

- Programming Profile:** Codechef (max rating: 1760+) ([view](#)), GFG (max score: 431) ([view](#)), Leetcode(1810+)([view](#)).
- Languages:** C/C++, Python, Kotlin, **SQL, HTML5, CSS, JavaScript (Node.js)**.
- Frameworks/Libraries:** Express.js, React, Bootstrap5, Mongoose, Android Jetpack, Retrofit 2, **Socket.io**.
- Databases:** Sequelize (ORM), MongoDB, Cloud Firestore, **PostgreSQL, MySQL, SQLite**.
- Development Tools:** Amazon Web Services, **Firebase, JIRA, RESTful APIs, Git**, GitHub, Cloud Messaging, Firebase Crashlytics, Android Studio, **Figma, Postman**, Android Debug Bridge, Unit Testing (JUnit).

Work Experience

Helios Solutions (Software Engineer) Dec 2023 - Present

- Leveraged **Kotlin coroutines** to architect and optimize **multi-threaded** components within **2+** Android applications achieving a demonstrable **12% performance improvement** and a **24% increase** in app responsiveness.
- Improved overall performance by **22%** using **query optimization, indexing, microservices** and **batch processing**.
- Developed task management features in-app, including intuitive task creation, interactive data visualization using **MPAndroidChart**, and **push notification** reminders, resulting in a **20%** user engagement increase.
- Architected **Firestore database**, leveraging **denormalization** and structured document for optimal data retrieval. Effectively utilized **JIRA** for efficient project management, delivering **100%** quality product.
- Collaborated within an **8-person** development team, leveraging **React** to build front-end components. Streamlining workflow and contributing to a **13%** reduction in development time through **B5 and React**.
- Utilized **Git** for version control, **MVC** architectural pattern and collaborated with team members using **Agile methodologies** and developed a **full stack blogging** website using the **MERN** stack (**MongoDB, Express.js, React, and Node.js**).

Infosys (Software Developer Intern) Jul 2022 - Feb 2023

- Spearheaded integration of **Couchbase Lite**, empowering users with seamless offline data access and modification capabilities on Mobile devices, ensuring uninterrupted service data management.
- Proficient in utilizing **Retrofit 2** to create efficient, clean, and maintainable **RESTful API integration** solutions for Android applications, resulting in improved data retrieval.
- Integrated **Google Maps (standard view)** for location services by resolving **3+** bugs.
- Assisted in bug fixing (**resolved 7+ bugs**) and performance optimization through **Kotlin Coroutines**.

Projects

PMS-Portal (Project Management System) Jan 2024 - Apr 2024 ([brief](#)) ([view](#))

Exposure: Sequelize (ORM), Node.js, Express, React, MySQL, MVC, RESTful API, JWT, BcryptJS, Socket.io

- Developed PMS-portal with **Sequelize (ORM), MySQL, Express, Node.js**, and **React** for project management.
- Improved performance by **12%** through **worker-thread** modules, **lazy loading, indexing** and resolution of **6+ bugs**.
- Utilized **Sequelize** ORM for efficient database management, including **migrations** and **associations**.
- Designed roles (**Admin, Manager, Employee**) with specific access rights for streamlined functionality.

My College Mate (Startup) Feb 2023 - Dec 2023 ([view](#))

Exposure: OpenCV, Android Studio, Firebase, MongoDB, Mongoose, Node.js, Firebase storage, Algorithms

- Architects secure mobile ecosystem for student community, integrating video lectures, assignments, social features (Group call and in-app chatting features), attendance management and many more.
- Integrated **OpenCV** for facial detection, **biometric authentication**, and **implemented OTP authentication** with **Firebase**.
- Successfully integrated **Firebase Realtime Database** for real-time chat and leveraged **zegocloud** for interactive group video meetings.
- Enhanced video learning experience by integrating **Media3 Exoplayer** for smooth streaming (video completion **increases by 16%**). Implemented **sorting/graph visuals** using **Canvas** on a **background thread** for learning purpose.
- Achieved a **20% reduction** in memory usage by optimizing app UI by replacing List View with **Recycler View**.

Honour and Achievements

Programming: Global rank: 6083, Country rank: 4886 on Codechef. Top 6.91% on Leetcode.

- Global rank** of 98 out of 12790 contestants in **Codechef** June long challenge.
- Globally ranked (342/ 25773)** in **Leetcode** weekly contest 366.
- Cleared **Codechef** **snackdown** round 1.
- Position of Responsibility:** Taught **DSA** to more than **100+** students under peer-to-peer learning.