

VEDANT RATHORE

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Education

- Prestige Institute of Engineering Management and Research, Indore** Aug 2020 - Jul 2024
BTech- Computer Science Engineering (CSE), CGPA: 8.08

Skills

- Programming Profile:** Codechef (max rating: **1760+**) ([view](#)), Leetcode (**1810+**) ([view](#)).
- Open-Source Contribution:** npm package with React components, reaching **313** weekly downloads ([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, Angular**.
- 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 (Associate Software Engineer) Jun 2024 - Present

- Optimized third-party API data processing, reducing file processing time from **16** seconds to **2** seconds by implementing efficient **queries, data structures, algorithms**, batch processing, and indexing.
- Improved overall performance by **22%** using query optimization, **indexing, micro-services** and **batch processing**.
- Designed **high-level** project **architecture** and **database schema**, ensuring scalability for future extensions and achieving **100%** on-time product delivery for the client.
- Learned to train an **AI model** to extract and analyze data from client PDFs, leveraging advanced **text extraction** and **NLP** techniques to improve data processing efficiency providing better solutions and suggestions.

Helios Solutions (Software Engineer Intern) Dec 2023 - May 2024

- Reduced **2,800+** lines of code by creating a reusable React component, streamlining functionality across **9** parent components.
- Collaborated within an **8-person Agile** development team to build front-end components using **React**, streamlining workflows and reducing development time by **18%**. Utilized **Git** for version control and implemented a full-stack system following the **MVC** architectural pattern using the **MERN** stack.
- Built task management features with data visualization (Chart.js, D3.js) and **Web Push API** notifications, boosting efficiency by **15%** and satisfying client requirements.

Infosys (Software Developer Intern) Jul 2022 - Feb 2023

- Led **Couchbase** Lite integration, enabling seamless **offline** data access and modification on mobile devices.
- Integrated **Google Maps (standard view)** for location services.
- 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) Mar 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 video meetings.
- Created **visualizations** for **sorting, BFS, DFS**, and **Dijkstra's** algorithms with **Canvas** on a background thread.

Honour and Achievements

- 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.
- Position of Responsibility:** Taught **DSA** to more than **100+** students under peer-to-peer learning.