Sachin Shekhawat

Adm. No. 21JE0796   📞+916205433404

✉ 21je0796@iitism.ac.in   in Sachin Shekhawat   ⓞ Sachin Shekhawat

EDUCATION

Indian Institute of Technology (Indian School of Mines) Dhanbad   Expected May 2025
Bachelor of Technology in Computer Science and Engineering (GPA: 7.34/10.00)   *Dhanbad, Jharkhand*
- **Relevant Coursework:** Data Structures and Algorithms, Object Oriented Programming(OOPs), Operating Systems, Computer Networks, Computer Architecture, Database Management System , Software Engineering, Machine Learning, Principle of Blockchain Technologies, Digital Image Processing, Soft Computing, Computer Graphics.

EXPERIENCE

Barclays UK   Jun 2024 – Aug 2024
Technology Developer Internship   *Northampton, United Kingdom*
- Deployed a scalable **microservices framework** using **Java** and **Spring Boot**, resulting in a **10% increase in unit test coverage** (from 85% to 95%) and a **15% improvement** in overall code testing efficiency. Additionally, implemented advanced validation and testing techniques, leading to a **20% reduction in fraud risk**.
- Worked extensively with a range of technologies such as **Jenkins**, **OpenShift**, **SonarQube**, **Bitbucket**, and **Jira**, focusing on **CI/CD pipelines**. Gained hands-on experience with **Docker**, **Kubernetes**, and **Swarm**, successfully managing and optimizing deployments on these platforms.

Data and Software Technology Club   Mar 2023 – Nov 2023
Teaching Assistant | Android Developer   *IIT(ISM) Dhanbad, India*
- Led workshops on **Android Development** using **Java** and **Kotlin**, ensuring participants gained practical, hands-on skills.
- Mentored a team during **Winter of Code 5.0**, guiding them through successful project implementation and mastery of key concepts.

PROJECTS

Restaurant Simulation | Prof. **Hari Om** | *C, Linux, DeadLock Prevention, Multithreading, Semaphores, Mutexes*
- Developed a multi-process restaurant simulation using **inter-process communication** mechanisms like **semaphores** and **mutexes** to manage synchronized tasks between concurrent processes, such as **customers, waiters,** and **the doorman**.
- Implemented process **synchronization techniques** to avoid **race conditions** and **deadlocks**, ensuring proper coordination and resource sharing between child processes in a simulated restaurant environment.

Convocation | Prof. **Saurabh Shrivastava** | *React.js(Next.js Framework), Laravel, MySQL, MVC Architecture*
- Directed the successful creation and launch of the Convocation Portal with the **University's Technology Team**, enhancing user experience and reducing manual processing time by 40% for over 5,000 students.
- Designed and deployed the scalable **Restful API's** using **Laravel Framework** with Model-View-Controller Architecture, achieving a 30% improvement in data retrieval speed.

Concetto | *Android Studio(Kotlin), MongoDB, Coroutines, Node.js, FCM, MVVM Architecture*
- Developed a **University Annual Technical Fest Application** using **Kotlin** and **Model-View-ViewModel Architecture**, providing with real-time insights and improving decision-making processes.
- Implemented a **real-time notification feature** using **Firebase Cloud Messaging (FCM)**, enabling instant updates for students, while providing admin authorities with seamless access and control over messaging functionality.

TECHNICAL SKILLS

Languages: C, C++, Java, Kotlin
Technologies: Android, Spring Boot, MongoDB, Firebase, React.js, Laravel, Github, Linux, Blockchain Technologies.
Concepts: Data Structure and Algorithms, Database Management Systems , Object Oriented Programming, Operating Systems, Computer Networks(TCP/IP), Application Programming Interface, Information Theory and Coding, Agile Methodology.

ACHIEVEMENTS

- My team **Radhe** took place in the **top 1K** teams out of **60K** teams in **Xiaomi Ode-2-Code 2.0**.
- My team **Vortex** took place in the **top 1K** teams out of **400K** teams in **Flipkart Grid 5.0** in the SDE track.
- Achieved a top-tier rank of **AIR-707** in JEE-Mains, placing within the **top 0.1%** of candidates nationally, showcasing exceptional academic proficiency and strategic exam preparation.
- Solved more than **500 problems** on various coding platforms like HackerRank, LeetCode, CodeForces, etc.

SOCIAL ENGAGEMENTS

Organiser : Concetto - Annual Tech Fest of IIT Dhanbad
Responsibility: Student Internship Representative Of Computer Science and Engineering.
Club Member : Data and Software Technology Club | Android Division | Tech Society of IIT Dhanbad.