

# Amrit Gaurav Rath

✉ [agr10@iitbbs.ac.in](mailto:agr10@iitbbs.ac.in) | ☎ 9439092128 | 🔗 [linkedin.com/in/amrit2104](https://www.linkedin.com/in/amrit2104) | 🌐 [github.com/amrit2104](https://github.com/amrit2104)

## EDUCATION

**Indian Institute of Technology Bhubaneswar**

*Dual Degree(B.Tech+M.Tech) in Electrical Engineering*

Bhubaneswar, Odisha, India

*Aug 2018 – May 2023*

## SKILLS

**Programming/Scripting Languages:-** C/C++, Java, Groovy, Bash, MATLAB

**Frameworks:-** Spring, Springboot, J2EE, JPA, Hibernate, Spring MVC, Maven, JUnit

**DevOps:-** AWS, Docker, Kubernetes, Helm, Jenkins, Argocd, Nutanix

**Databases:-** PostgreSQL, Kafka, Druid, Flink, MySQL, MongoDB

**Web Development:-** JavaScript, Nodejs, REST API, GraphQL, HTML, CSS, Bootstrap

**Miscellaneous:-** Data Structures, Algorithms, OOPS, System Design, DBMS, Linux, Git, Postman

## WORK EXPERIENCE

**Brane Enterprises Pvt. Ltd.**

*Software Development Engineer-1*

Bengaluru, Karnataka, India

*May 2023 – Present*

- \* Developed REST APIs in **Java** and **Spring Boot** to facilitate efficient MongoDB query execution.
- \* Contributed to the development of a **Rule Engine** micro service, enhanced testing by introducing the **Test Containers** framework, and configured **JUnit** tests for real-world simulation and quality assurance.
- \* Created a **REST API** to export data into PDF, XLSX, and CSV formats, handling bulk data efficiently from Elasticsearch (ES), increasing user efficiency by **30%** and reducing data processing time by **25%** during exports.
- \* Integrated and tested external PDF APIs like **PDF Monkey**, enhancing document generation processes by **35%**.
- \* Worked on setting up and managing on-call troubleshooting for **ETL** components like Kafka, Flink & Druid.
- \* Deployed **Rule Engine** micro-service on AWS **EKS** and Nutanix **Kubernetes** clusters with **Helm Charts**, created **CI/CD** pipelines with **Jenkins** & used GitOps tools like ArgoCD to boost deployment speed by **40%**.
- \* Migrated microservices & databases from **AWS** to **Nutanix** infrastructure saving **\$500,000/pa** on AWS Billings.
- \* Designed a **proxy server** for the users to access DBs in Nutanix, automated requests and approvals on DevOps webapp, reducing **200+** manual requests per week.
- \* Containerized Java services by executing multi architecture **docker images** on arm EC2, optimising cost by **30%**.
- \* Worked on **S3** bucket creations, **IAM** user creations to use AWS resources & **Elastic Load Balancer** Setup.

## MAJOR PROJECTS

**School Management System** | *Java, Spring Boot, Thymeleaf, JPA, MySQL*

- \* Developed an Application using the **Spring Boot** and **Spring MVC** for efficient and structured development.
- \* Implemented **Spring Security** for authentication and authorization, ensuring secure access control.
- \* Integrated **Spring JPA** with **MySQL** database, leveraged **Lombok** for boilerplate code generation, **H2** for testing, and **Thymeleaf** for creating dynamic, responsive templates to enhance user experience.

**Event Booking WebApp using GraphQL** | *MERN, GraphQL, JWT*

- \* Built a Web Application using **MERN** Stack and **GraphQL** API to book, view, add & cancel events.
- \* Integrated **JWT**-based authentication for secure user registration, login, and access control for different features.
- \* Created APIs using **GraphQL** query and mutations, enhancing the app's efficiency and user experience.

**Real-Time Group Chat WebApp** | *HTML, CSS, JavaScript, Socket.io*

- \* Created an Application with HTML, CSS & JavaScript for real-time communication between clients and servers.
- \* Utilized **Socket.io**'s event-driven architecture for handling user events, enhancing responsiveness and interaction.

## ACHIEVEMENTS & PORs

- \* Secured **Global Rank 1680** in 2021 and **2450** in 2022 **Facebook Hackercup Round-2**(ID: amrit2104).
- \* Competed in **Google Kickstart**(ID: amrit2104), **2022**: Global Ranks: Round-B: 1313, Round-D: 1693, Round-F: 1990, Round-G: 1623, & Round-H: 1986, **2021**: Round-E: 2053, Round-H: 1328.
- \* Solved **800+** questions on **Leetcode** and **GFG**; Achieved **4-star on CodeChef**(max rating: 1988).
- \* Represented 400+ students and coordinated industry relations for **student placements & internships** at CDC.
- \* Taught 50+ 3rd and 4th year students for electrical engineering labs as **Graduate Teaching Assistant**.
- \* Achieved **All India Rank 4469** in JEE Advanced 2018 & **All India Rank 1854** in JEE Main 2018.