

# RITUPARNA BANIK

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## EDUCATION

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- Kalinga Institute Of Industrial Technology, Bhubaneswar, Patia, India** **CGPA:7.83**  
BTech(Computer Science and Engineering),2025

**Coursework:** Data Structure, Design, and Analysis of Algorithms, Operating System, DBMS(RDBMS),HRM

## WORK EXPERIENCE

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- [Java Developer Intern](#) , National Informatics Centre, Agartala** **MAY-JULY 2024**
  - Increased data processing efficiency by 30% using MongoDB, React, Spring Boot, Insomnia for API review.
  - Developed project for protecting personal data using encryption and decryption, handling 1 million users.
  - Collaborated with teams, implemented JWT tokens, 10+ features with full testing, and generated reports.
- [Research Work Intern](#) , NIT Agartala** **DECEMBER'23-JANUARY'24**
  - Researched Neural Cryptography, enhancing encryption accuracy by 35% with ML, NNs, CNNs.
  - Authored a research paper with 8+ pages, utilizing LaTeX for detailed documentation.
  - Analyzed datasets containing over 50,000 records, enhancing encryption methods by 40%.
- [Full Stack Web Developer Intern](#) , Skolar** **JANUARY-MARCH 2023**
  - Developed Full Stack applications using HTML, CSS, JavaScript, MongoDB, React, handling 1000+ records.
  - Optimized applications for 10,000+ daily users, improving performance and reliability.
  - Completed 100+ hours of training in Full Stack Web Development Technologies.

## PROJECTS

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- Twitter Clone: Scalable Social Media Platform | HTML, CSS, Javascript, Postgres, Spring MVC**
  - Designed a user-centric tweet sharing platform, using HTML,CSS, JS, scalable for 1 million users.
  - Implemented Login, Signup, Create Tweet, Follow User like 10+ more features.
  - Ensured exceptional performance through rigorous REST API testing with 100% test coverage.
  - Integrated iPaaS solutions like Dell Boomi for seamless integration with external systems or services.
- Wikipedia Fetcher Api | HTML, CSS, Javascript, Java, Postgres, Spring MVC**
  - Engineered a Wikipedia query platform with JSON and HTML result formats.
  - Employed Spring MVC for the backend infrastructure for enhanced performance.
  - Acquired and processed data from wikipedia.org with results under 400 milliseconds.
  - Subjected the platform to rigorous testing, with 1000+ queries like 'India,' 'America,' and more.
- Zippy -Tube (YouTube Clone) | HTML, CSS, React, RapidAPI**
  - Deployed YouTube clone as SAAS using cloud hosting, serving 10,000+ users.
  - Integrated Rapid API to fetch video data, expanding content library by 50%.
  - Managed continuous deployment, ensuring 99.9% uptime and scalability.
  - Utilized CI/CD pipelines, reducing deployment time by 40% and enhancing reliability.

## TECHNICAL SKILLS

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- Languages:** C/C++(Proficient), Java, Python, Javascript
- Full Stack Development:** HTML, CSS, Javascript, Java Backend, Spring MVC
- Database Technologies:** Mysql, Postgres, SQL, Hadoop, Spark
- Data Science:** NLTK, NLP, Standard ML Algorithms(Regression, Classification, Clustering)
- Data Analysis and Visualization:** Power BI, Numpy, Pandas, Matplotlib
- Developer Tools:** IntelliJ, VS Code, Git, Eclipse, Selenium, Postman, Insomnia
- Additional Skills:** CS Fundamentals, OS, SDLC, Agile Methodologies, [AWS](#), Debugging &Testing, MS Word, MS Excel, MS Powerpoint

## HONORS AND AWARDS

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- Solved numerous problems on [Hackerrank](#), [Codechef](#), [Interview Bit](#), [Leetcode](#) and earned badges
- Received Certificates for participating in [KIIT Hackathon 18](#) and [Programming Camp](#)
- Received a badge for completion of the Rookie Phase as a [Rookie Phase Developer](#)
- Received a Professional Certificate on [Generative AI](#) by Microsoft and LinkedIn.