

# ARIJIT ROY

[Website](#) | [GitHub](#) | [roy.arijit@icloud.com](mailto:roy.arijit@icloud.com) | [Blog](#)

## EDUCATION

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### MANIPAL UNIVERSITY

Bachelor of Technology

Major in Computer Science

Cumulative GPA: 8.95/10; TMA Pai Engineering Scholarship Recipient (2019, 2020, 2021, 2022)

Relevant Coursework: Software Engineering; Operating Systems; Algorithms; Artificial Intelligence; Databases

Rajasthan, IN

Expected June 2023

## WORK EXPERIENCE

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### DOCSUMO

Backend Developer

Remote

Sep 2022 – Present

- Devised and created a service to split PDF to pages based on multiple keyword matches.
- Fixed security issue related to API access affecting approximately 30% users.
- Orchestrated 3 step pipeline to save extracted metadata from Excel files to MongoDB.

### Founain9 (YC W21)

Backend Developer Intern

Remote

Apr 2022 – Sep 2022

- Processed 5M+ rows of daily client data to generate reports for inventory prediction.
- Architected and coded a logging system to parse, transform and save API activity to MongoDB.
- Restructured database architecture and migrated unstructured data to NoSQL, reducing column count by 40%.
- Introduced and implemented custom deduplication rules to slash memory footprint by 90%.

## PROJECTS

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### [Rezonnance - Social Music Ecosystem](#)

Aug 2021

- Automated bulk data streaming service to move data between PostgreSQL & Elasticsearch at a rate of 100MB/s.
- Enhanced search query response time by a factor of 110% using indices.
- Engineered recommendation pipeline using XGBoost with inference time less than 2000ms.
- Designed a decoupled architecture to compute daily trends for over 10 categories of data.
- Developed microservices in Python using FastAPI, PostgreSQL, Elasticsearch, Redis and Celery.

### [AQUA - Assignments Quizzes Utility Application](#)

Jan 2021

- Devised a bulk file upload/download service with a latency less than 0.5 seconds to Azure Blob Storage..
- Utilized Azure Cognitive OCR to convert 60 handwritten assignments to text under one minute.
- Automated grading of assignments based on predefined marking schemes based on fuzzy matching.

## ACTIVITIES

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### Randomize();

Chairperson

Rajasthan, IN

May 2021 – May 2022

- Chaired the board of 5 executive members to represent and lead the official computing club of the college.
- Conducted over 30+ technical events on topics like cloud computing, system design, competitive coding etc.
- Led development of MUJ-PMS, a tool used by the HR Department of the college to automate performance management of 450+ faculty members.

## Skills

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**Languages:** Python, C++, BASH, SQL

**Database Systems:** PostgreSQL, MySQL, SQLite3, Redis, MongoDB, Elasticsearch

**Frameworks:** FastAPI, Flask, Django, SocketIO

**Tools:** Git, Postman, Docker, Gitlab, GitHub Actions,

**Microservices:** Celery, Apache Kafka, RabbitMQ, NGINX

## Achievements & Certifications

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**Hackathons:** Won 6 hackathons (4 International, 2 National) by companies like Linode, Dolby Labs, AWS etc.

**5 Star Rating on CodeChef:** Achieved global rank 1 in May 2021 Long challenge.

**Certifications:** Redis RU101, Deep Learning Specialization (deeplearning.ai), Machine Learning (Stanford University)