Ayush Ranjan Singh

Engineering Undergraduate

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🌐 http://www.caffeine-coated.codes/

EXPERIENCE

💼 SDE-Intern | Tookitaki, Singapore.

Scala, ActiveMQ, JMS, Spark, MySQL

📅 **October, 2020 – Jan, 2021**

- Developed a client-application to fetch messages from ActiveMQ-Broker with low latency.
- Created a JMS-Client, from scratch, which can be clubbed with Spark-Streaming application(s).

💼 SDE-Intern | Excain LLP, India.

Microsoft Azure, OpenCV, REST APIs

📅 **July, 2020 – Sept, 2020**

- Worked as an Intern with the ML team of Excain LLP.
- Developed an OCR model which could transform handwritten prescriptions to digital text.

💼 Web Developer | Developers Club, NIT-A.

NodeJS, ReactJS, JavaScript, REST APIs

📅 **March, 2020 – June, 2020**

- Worked on the development and deployment of full-stack web application "IIIT-Agartala".
- Created the frontend pages, and the dynamic header bar of the website.

TECHNICAL SKILLS

- **Programming Languages**: Python, C++, Scala and Java.
- **Libraries and Tools**: ActiveMQ, Spark, Kafka, NodeJS, React, Express, MongoDB, Django, SQL, PyTorch, Firebase, GIT, ROS and Tensorflow.
- **Software Packages**: Postman, Jupyter Notebook, Simulink, Adobe Photoshop, Android-Studio, Vim, UNIX.

AWARDS AND ACHEIVEMENTS

- Worldwide **Rank of 776** on **InterviewBit**.
- **One among the 50 students** selected, from all across India, for **Google-ExploreML** program.
- Institute **Rank 2** on **GeeksForGeeks**.
- Secured **4th Rank** in **RoboWar** at IIT-GHY Techniche'19.

LEADERSHIP ROLES

- Served as the **Lead** for the *Developer Students Club-NITA*.
- Managed the work and events of the *Robotics Club, NIT-Agartala* as its **General Secretary**.
- **Lead the Robotics team** "*ANNHILATORS*" to victory in several competitions.

EDUCATION

Bachelor of Technology (Electrical Engineering)

🎓 **National Institute of Technology-Agartala**

📅 2022   🎓 CGPA: **9.35/10**

With **9.96/10** SGPA in the 4th Semester of Study.

PROJECTS

🛠 Autonomous Robot | Personal Project

Tensorflow, OpenCV, Keras, Raspberry-Pi

Link: https://youtu.be/0Fff2ncdbPo

- Developed an autonomous robot which can navigate itself in a controlled environment.
- The robot uses onboard Raspberry-Pi to process the data received from various sensors (including onboard camera).

🛠 LinkinJMS | Tookitaki

Scala, Spark, JMS, ActiveMQ

Link: https://github.com/WinterSoldier13/linkinJMS

- Developed a package from scratch to connect and fetch messages form ActiveMQ broker.
- The application also supported writing messages to the topic/queue of the ActiveMQ.

🛠 Professor-Mirror | Group Project

NodeJS, JavaScript, Firebase, MongoDB

Link: https://bit.ly/3f9Suxh

- Worked on the backend for an application where the students can rate their professors on several parameters (Research, Interaction with students etc.)
- The app uses MongoDB for persistent storage and Firebase to store details about Users and facilitate authentication.

PUBLICATIONS

- **SYNTHESIS OF COMPOSITE LOGIC GATE IN QCA EMBEDDING UNDERLYING REGULAR CLOCKING.**
  Journal: Facta-Universitatis
  Status: Submission-accepted
- **REGULAR CLOCKING BASED AUTOMATED CELL PLACEMENT TECHNIQUE IN QCA TARGETTING SEQUENTIAL CIRCUIT.**
  Journal: Computers and Electrical Engineering
  Status: Submitted-for-review