

# AYUSH RANJAN SINGH

+91-7766942620 | ayushsingh1315@gmail.com | linkedin.com/in/winter-soldier | github.com/WinterSoldier13  
https://wintersoldier13.github.io/

## EXPERIENCE

### Software Application Engineer | Google, India.

July 2022 - Present

*Typescript, Java, OpenTelemetry, proprietary Google technologies*

- Worked on Full Stack Development of an application to extract telemetry metrics from hosted third-party distributed systems for gaining visibility in the performance of the system. This saves Google >\$100 million per year.
- Worked on the implementation of a highly available and scalable backend responsible for collecting and stitching metrics and traces spans emitted from the monitored distributed systems.
- Worked on developing a secure gateway system to transfer static contents from a 3P storage system to a secure internal storage system.
- co-authored two Blue docs and two Technical Design Document.
- co-owner and maintainer of open-source Opentelemetry packages inside the google codebase.

### Software Engineer-Intern | Komprise, India.

January 2022 - June 2022

*Python, proprietary organization components, Robot-Framework*

- Worked on the development of an Automation Engine capable of parallelizing the different operations in the product and identifying critical bugs.
- Decreased the execution time of BVT suite by 87.5% using multi-threading.

### Data Engineer-Intern | Accenture, India.

May 2021 – July 2021

*Snowflake, Tableau, Python, AWS-S3, Rasa*

- Worked on the end-to-end development of a Business-Intelligence Dashboard to analyze statistics of E-Commerce websites.
- Designed and fabricated a pipe-line for the big data to flow from the staging area in AWS-S3 to Snowflake Warehouse in an optimized manner.
- Developed a chat-bot that uses Natural Language Processing to derive and display insights from the data.

### Software Engineer-Intern | Tookitaki, Singapore.

October 2020 – January 2021

*Spark, ActiveMQ, JMS, Scala, MySQL*

- Fabricated a pipeline that fetches data from a queue/topic of an ActiveMQ-Broker through Spark Structured-Streaming and then writes the data to another queue of the broker.
- Decreased the latency of message delivery from 0.85 sec (Bahir) to <0.05 sec (Custom JMS-Client).
- Successfully managed to embed the JMS-Client in a Spark Structured-Streaming application, with client-side message recovery system.

## EDUCATION

### National Institute of Technology, Agartala.

August 2018 – May 2022

*Bachelor of Technology (Electrical Engineering)*

9.33/10 CGPA

## TECHNICAL SKILLS

**Languages:** TypeScript, C++, Scala, and Java.

**Libraries and Tools:** ActiveMQ, Spark, Kafka, ReactJS, Node.js, Express, MongoDB, Tableau, Snowflake, Rasa, Django, SQL, PyTorch, FastAPI, Firebase, git, ROS and Tensorflow.

**Software Packages::** Docker, Postman, Jupyter Notebook, Simulink, VS Code, Adobe Photoshop, Android-Studio, Vim, UNIX.

## ACHIEVEMENTS

-> Institute **Rank 1** on GeeksForGeeks (among 1,180+) with a worldwide **Rank 72** (among 100,000+) in **Algorithms**.

-> **One among the 50 students** selected from all across India, for *Google-ExploreML 2019*.

-> **One among the 11 students** selected for the prestigious *Indian Academy of Sciences: FASTSF Fellowship 2021*.

-> Established the first Developer Student Club at NIT-A after being appointed as the Lead by Google in a highly selective process(only 179 leads were selected across India)