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Anurag Kumar Kushwaha

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Work Experience

Software Engineer II	**Edelweiss**	**Apr 2023 – Present**
Global Markets	Mumbai	

➢ **Project Metanoia - Java, Spring Boot, Python, Protobuf, Dask, Clickhouse, Microservices**
  Metanoia is a Java framework which enables Algorithmic Trading in stock markets (NSE & BSE).

- Developed the Algo Container (ACS) in Metanoia, reducing team workload by enabling Options/Directional researchers to write their own trading strategies.
- Managed portfolio loading, order placement & tracking, and communication in ACS, using REST API and Kafka, enhancing system efficiency.
- Built an error reporting & logging system in Python, improving system reliability and reducing manual oversight.

➢ **Project Strategy Platform, An older Algo Trading Framework - Java, Microservices, REST API, Cassandra, Kafka**

- Optimized historical market data retrieval, reducing data retrieval time by 80% from 5 minutes to 1 minute, by developing a local storage utility and validating data inconsistencies.
- Implemented various Stock market changes, including the NSE Index expiry update, and extended the framework to onboard Finnifty and Midcap algorithms, enhancing trading capabilities in Java.
- Developed and maintained custom modules and workflows, improving system efficiency and reliability by leveraging Java, Microservices, REST API, Cassandra, and Kafka.

Software Engineer I	**Edelweiss**	**Jul 2021 – Mar 2023**
Global Markets	Mumbai	

- Re-architected the Strategy Platform to support Options, Directional Options trading strategies, enhancing system trading capabilities and performance.
- Coordinated with researchers to gather requirements and productionize six Options strategies to run on the NSE, doubling the system coverage.
- Scaled the system to handle more capital by implementing expiry rollovers and carry support.

Software Engineer	**Nucleus Software**	**July 2019 – Jul 2021**
Neo Collections	Noida	

- Developed and worked with complex functionalities in Collections module which is the Loan Delinquency Management System of FinnOne Neo for more than 20 banks.
- Owned the building, release and on-prem deployment of the FinnOne Collections 5.0 module using Java, Spring Boot, Jenkins and Hibernate.

Software Developer Intern	**Nucleus Software**	**Jan 2019 - June 2019**
FinnAxia	Noida	

- Developed front-end system using tracking.js for tracking and registering attendance of 40 company interns.

Education and Achievements

Indian Institute of Information Technology, Allahabad	**2015–2019**
B.Tech., Information Technology	Prayagraj

- Won 3rd place among 70 teams, in Hack In The North 3.0 Hackathon.
- Finalist in IIIT Hacks, Techathlon'16 and Rajasthan Hackathon 4.0 Quizzeria.

Technologies and Languages

- Languages: Java, C++, Bash, SQL
- Technologies: Spring Boot, MySQL, Kafka, Git, Django, HSQLDB, Docker, Protobuf, Dask, Cassandra
- Other: Data structures, Object Oriented Programming, REST API, Design Patterns, Microservices