

# Hrishabh Choudhary

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## WORK EXPERIENCE

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### Splunk Appdynamics

Software Engineer

Bengaluru  
Jul 2023 – Present

- Developed a robust system enabling customers to access replay videos of end users' sessions by **creating a Blob Service from the ground up** to manage replay blobs, metadata, and licensing.
- Engineered a sophisticated **multithreaded** system to strategically sample mobile beacons based on OS version, app version, and event type, optimizing license utilization through targeted monitoring and enhancing customer value.
- Enhanced mobile app monitoring capabilities by **integrating support for hybrid agent stack-traces** for Flutter / React apps.
- Contributed to **platform stability enhancements** and re-architecture of the End User Monitoring (EUM) SaaS offering.
- Implemented Network Metrics & Snapshots features to provide comprehensive statistics on API calls through a unified dashboard.
- Designed and implemented a system for updating, persisting, and publishing licenses for each EUM event type.
- Devised a **heuristic validation approach for Proguard Mapping Files** in response to premium customer requirements.

### BNY Mellon (remote)

Software Engineering Intern

Pune  
May 2022 – Jul 2022

- Developed an **Entitlement Management Application UI** to facilitate the seamless process of requesting, approving, or rejecting Entitlements by employees.
- Designed and implemented distinct views tailored for three distinct roles - General, Admin, and Approver - to display relevant data and functionalities.
- Utilized a front-end technology stack comprising **HTML**, **SCSS**, and **Angular**, in conjunction with a back-end supported by **Java** and **MongoDB**.

### Stealth Hedge Fund Startup (remote)

Quantitative Development Intern

Hong Kong, Singapore, London  
Dec 2021 – Feb 2022

- Developed and conducted **back-testing** for an **automated trading algorithm** utilizing **Python** for execution in **Cryptocurrency** markets.
- Designed and integrated modular components for **data retrieval from Exchange APIs**, decision-making processes, **visualization**, and **trade execution**.
- Leveraged **Telegram API** to generate and share trade plots on-demand, showcasing the bot's functionality to potential investors.
- Achieved a 99% reduction in program runtime** by optimizing computational complexity and adopting faster libraries.

## COMPETITIONS

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- Google Kick Start:** Secured Global Rank **130, 147 and 147** in Round E 2022, Round B 2022 and Round D 2021 respectively.
- Codechef:** Achieved Global Rank **1 and 17** in May Lunchtime 2022 Division 3 and Starters 39 Division 2 respectively.
- Codeforces:** Achieved Global Rank **339 and 534** in Round 816 (Div 2) and Round 704 (Div 2) respectively.
- ICPC Amritapuri 2020-21:** Secured an **AIR of 266** in Preliminary Round and **AIR of 384** in Regional Round.
- Meta (Facebook) Hacker Cup 2022:** Achieved a Global Rank of **684** in Round 3.

## PROJECTS

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### Trading Channel Finder | Self Project

Dec 2021

- Created a **Python** program to fetch candlestick data from a Cryptocurrency exchange's API using the **requests** module.
- Designed a novel **algorithm to detect Parallel Trading Channels** and false breakouts in the charts and return plots.

### Cloud-Based Food Delivery Application | OpenSoft 2021-22

Feb 2022 – Apr 2022

- Worked on the Delivery module as a team to develop a Food Delivery Application based on **Microservices Architecture**.
- Built the back-end APIs for the Delivery microservice using **Flask** framework, **SQLAlchemy** and **PYMS**.

## EDUCATION

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### IIT Kharagpur

Bachelor of Technology

Major in Instrumentation Engineering

CGPA: **8.86/10.00**.

Was among the **top 5 percent** of the batch after the first year.

Kharagpur  
Jul 2019 – Apr 2023

## SKILLS AND EXPERTISE

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**Backend:** Java, Python, C++, Go.

**Frontend:** React, Angular

**Libraries & Tools:** Kubernetes, Docker, AWS, JUnit, TeamCity, Pandas, Numpy, Matplotlib, mpl-finance, Plotly, Git, Jupyter.