

Pragya Choudhary

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Result-driven, inquisitive graduate with 5+ years of software engineering experience, adept at seamless integration and delivering robust scalable products for diverse business use cases at Goldman Sachs.

EDUCATION

Indian Institute of Technology Roorkee, *B.Tech in Chemical Engineering and Minor in Mathematics* |
Uttarakhand, India GPA: 8.05 / 10

Aug 2019

Awards: Citi Women Leader Award 2018 | Rajasthan Gargi Puraskar 2015

Achievements: GS Basketball Team Winner 2023 | First Place in Online Round and Third Place in On-Campus Round at Code Fun Do 2017 (Microsoft Hackathon | Inter IIT Tech 2018 4th position

Scores: All India JEE Advance Rank- 2997 | All India JEE Mains Rank- 6997

Courses: Linear Algebra | Advanced Mathematical Methods | Design and analysis of algorithm | Machine Learning | Financial Mathematics | Mathematical Statistics | Numerical Methods | Operating system | Qualitative analysis of financial management

SKILLS

Languages	Java, Python, React Js, Angular, Git
Software	Linux, Kubernetes, CI/CD, Terraform
Databases	MongoDB, Sybase IQ, Postgress, Influx-DB
Other monitoring tools	Prometheus, Grafana

EXPERIENCE

Goldman Sachs, *Associate* | *ETO Engineering* | *GS Metrics* | Onsite (Bangalore, India)

October 2022 - Present

- **System Design and Implementation:** Built and successfully designed high-level and low-level systems for efficient alerting in GS Metrics, an internal data store for functional and non-functional business metrics, supporting over 16,000 intraday instances.
- **Anomaly Detection Enhancements:** Improved alerting systems by replacing the 2-sigma method with anomaly detection-based thresholds using the FB-Prophet algorithm, effectively managing alerts for over 10,000 instance IDs.
- **Data Flow Optimization:** Designed and implemented an efficient data flow system for InfluxDB buckets, capable of handling diverse metrics with varying predicted payloads, including anomaly detection flags.
- **Real-Time Data Processing:** Developed a Kafka channel for real-time consumption and publication of predicted values to InfluxDB, enabling real-time tagging of anomalous metric values.
- **User Interface Development:** Developed a user-friendly UI in ReactJS with interactive ag-grid tables for visualizing alerting thresholds, enhancing user experience and operational transparency.
- **Backend API Development and Distributed Scheduling:** Created robust backend APIs in Java to seamlessly serve model outputs and inputs, ensuring efficient data processing and integration. Utilized distributed scheduling for dynamically creating scheduled jobs for daily model training.

Goldman Sachs, *Analyst* | *ETO Engineering* | *Apphero* | Onsite (Bangalore, India)

October 2019 - October 2022

- Apphero - ServiceNow Integration for Response Handling and Ticket Management. Managing Escalations, Transfers, and Ticket Creation from Apphero. Efficient Onboarding Management for Over 10K Alerts.
- Encrypting and Decrypting Keystone Tickets with Key Generation for Apphero Platform, Enhancing Data Masking for 3000+ Tickets.
- Migrated 150 Platform Services Users, Streamlined Alert Lifecycle Management, and Implemented Key Features including Responsive Search, Private Comments, and Dynamic Data Grid Creation leveraging GS Internal DRA (Dynamic Relational Algebra). Enhanced User Experience with Customized Preferences for Action Handling (e.g., Chat Open/Close) and Timezone Selection for Personalized Views.
- Enhanced application performance dashboards using Rapid.js, Angular, and Backend extensions, developing features like responsive search, private comments, and complex filters.
- Led mentorship program for alert volume forecasting and critical alert classification, utilizing time series prediction techniques across 1026 services with normalized data, achieving an R2 value exceeding 50 per cent for 23 per cent of services and capturing repetitive patterns in 8-hour intervals for 46.21 per cent of services.(Algo Used- LSTM)

Faclon Labs, *Software Developer Intern* | Onsite(Mumbai,India)

Nov 2018 - Dec 2018

- Developed user-centric APIs for IoT data extraction and analytics in automotive and related industries.
- Implemented end-to-end solutions for delivering forecasted data using Spark streaming for real-time processing.

Citi, *Summer Intern (Equities Business Unit)* | Pune, India

May 2018 - July 2018

- Designed and developed a Market Data Certification client framework leveraging Java Spring framework and AngularJS, streamlining data sourcing from Citi's market data platform.
- Implemented a user-friendly one-page application enabling seamless messaging to clients across NAM and APAC exchanges, with customized field options for precise communication.
- Engineered a robust multi-casting network layer to optimize data transmission efficiency, ensuring timely delivery of messages to respective exchange ports while maintaining scalability and reliability.

LEADERSHIP EXPERIENCES

Cognizance, IIT Roorkee , *Tech Manager* | Onsite (Roorkee, India) 2018 - 2018

- Spearheading of tech team and was responsible for the development of the android application, push notifications and implementing newer technology of beacons for more involvement of participants.
- Conceptualized and formulated the entire technical structure for user base solution and operational application product timeline according to Asia's 3 rd largest tech fest Cognizance.

Culinary Club, IIT Roorkee, *Co-founder and Additional Secretary* | Onsite(Roorkee,India) 2018 - 2019

- Co-founded a Culinary Club at IIT Roorkee with a team of seven members. Aimed to assist students facing cooking challenges, preparing them for life beyond college.
- Orchestrated two successful food events, facilitating interaction between international and national students, professors, and peers.
- Led the organization of multiple cook-offs, each drawing over 100 participants, including students and professors, promoting culinary creativity and engagement.
- Managed the opening of the club's student-run cafeteria, a pioneering initiative across all IITs. This venture aimed to provide students with a unique dining experience while showcasing leadership and innovation.

Kasturba Bhawan IIT Roorkee, *Bhawan and Technical Secretary* | Roorkee, India 2017 - 2018

- Spearheaded a multi-faceted team consisting of 6 attendant and hostel managers at the first tier and 8 executive members at the second tier, overseeing the welfare of over 800 girls.
- Conceptualized and devised the comprehensive organizational structure and operational timeline for hostel events, ensuring smooth execution and optimal utilization of resources.
- Held accountable for addressing all technical issues within the hostel ("bhawan") and driving the technical advancement of all students residing in the facility, fostering a conducive living and learning environment.