

Sabrish Kumar Pradeep Kumar

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WORK EXPERIENCE

Meta Platforms

New York City, NY

Software Engineer

Oct 2023 - Current

- **Decommissioned legacy pipelines, saving \$200K+ annually** in infra costs and improving data reliability across IG and Messenger.
- **Directed quarterly synchronization of Global Business Group** tier graphs, aligning sales, engineering, and planning, unlocking tens of millions in revenue recognition and driving **incremental revenue growth**.
- **Automated global CX survey pipelines**, boosting engagement by **23%**, cutting manual ops by **80%**, and delivering timely insights with significant operational savings.
- **Architected the Anaplan Canonical Framework** to standardize sales planning, reducing onboarding by **70%**, improving forecast accuracy, and **cutting SLAs by 50% (T-6 → T-3)**. Built monitoring dashboards that reduced root-cause investigation time by **60%** and resolved a 5-year pipeline issue.
- **Developed scalable logging and monitoring infrastructure** for Instagram, including Story Highlights, Group Chats, and ad impression logging, improving traceability, debugging efficiency by **60%**, and enabling new **product monetization strategies**.
- **Enforced privacy compliance at scale** by revising asset privacy rules and implementing automated governance checks, ensuring long-term adherence to evolving data regulations.

Zenfra, Virtual Tech Gurus

Irving, TX

Software Engineer

Aug 2023 - Sept 2023

- **Architected and deployed a scalable log ingestion** and transformation framework that unified vendor data (Dell, Microsoft, VMware) into a centralized observability platform, **boosting system reliability** and reducing manual troubleshooting by **60%**.
- **Built backend services to automate compliance reporting** and infrastructure monitoring, enabling proactive incident detection and streamlined operations, which **lowered operational overhead by 30%** and improved customer infrastructure uptime.

Tesla Inc

Fremont, CA

Software Engineer Intern

Jan 2023 - May 2023

- **Developed** back-end schema design and **scalable architecture** for the Supply Chain Optimization team and constructed ETL and CI/CD pipelines with optimized SQL code for complex datasets using MSSQL, PostgreSQL, and NoSQL in a containerized environment with configuration management using Docker, Kubernetes, and deployment using Jenkins. **Enabled data accessibility across Supply Chain over 80%. Improved dashboard load performance by 98%.**
- **Designed an scalable architecture** to process and extract data as a ETL pipeline from APIs such as **Rapid Ratings, and Qualtrics** using python and developed Cron jobs using orchestration tools like Airflow. Additionally, performed **data analysis for KPIs in accordance with external and Internal stakeholders.**

Meta Platforms (Facebook)

Menlo Park, CA

Software Engineer Intern

May 2022 - August 2022

- Developed and optimized internal pipelines using Hive & Presto, orchestrated via Airflow, and deployed scalable data models in production. **Enhanced SEV detection and monitoring systems across Meta**, improving incident visibility and response time. Solution was **adopted company-wide**, powering dashboards and incident workflows used by all product teams.
- The **load time of a dashboard was increased from 45.8s to 4.5s**. The dashboard was used across Meta by different product groups to obtain insights on them.

Zoho Corporation

Chennai, India

Software Engineer Intern

March 2021 - June 2021

- Delivered iOS based Mobile Applications developed using Swift. Worked on various Zoho related products and developed mobile applications respectively and Developed iOS UI for Zoho Applications and updated the email validation with better time complexity for apps such as Zoho Cliq and Zoho People.

EDUCATION

Master of Science in Computer Science

Arizona State University, Tempe, AZ

Aug 2021 - May 2023

GPA : 4.0/4.0 (Gold Medalist)

Bachelor of Engineering in Computer Science and Engineering

Madras Institute of Technology, Anna University, Chennai, India

Aug 2017 - May 2021

SKILLS

Programming : Python, Hack, PHP, C++, Java, MySQL, Oracle Database, PostgreSQL, MSSQL, HTML, CSS, Angular JS, React JS, ETL
Toolbox : Keras, PyTorch, Tensorflow, Pandas, NumPy, SciPy, OpenCV, Scikit-Learn, Matplotlib, Apache Spark, Hive, Airflow, Presto, Xcode, Tableau, Jenkins, AWS S3, D3 JS, Docker

RESEARCH

Optimizing Infection Notification in Contact Tracing, MIT, AU

Leveraged graph databases and CNNs to classify human movement, boosting efficiency and reducing mobile battery usage, while predicting potential infections using ML models.

Supervised-Learning Approaches to Inter-UAV Collision Avoidance, MIT, AU

Developed efficient $O(n)$ algorithms for drone velocity detection and collision avoidance, enabling 2D pattern formation and simulation of N-networked drones in convex cyclic formations.