Dhruvi Doshi

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Education

Veermata Jijabai Technological Institute   **Aug 2019 – Jun 2023**
B.Tech. in Computer Engineering   *India*

Experience

JP Morgan Chase – *Software Engineer II*   **Aug 2023 – Present**
- Owned **4** large-scale end-to-end remediation lifecycle — identified impacted trades, engineered instrument amendment utilities, validated downstream cashflow impacts, and executed post-release reconciliations and prevent financial exposure.
- These remediation span across 10+ exotic **OTC derivative** products and 18+ global clients, delivering zero-incident production rollouts across 3 regions.
- Redesigned booking and downstream valuation logic to address regulatory, market, and client-driven changes; resolved systemic cashflow mismatches and accounting discrepancies across resets, premiums, settlements, and expiries.
- Led log archival migration to another cloud infrastructure — provisioned accounts, roles, storage, retention policies, and configurations; executed coordinated data migration ensuring regulatory compliance and operational continuity.
- Built Python utilities for trade monitoring and automated alerting, reducing manual intervention, supporting informed decision-making, and enhanced overall stakeholder experience.

Google Summer of Code 2023 🔗 ⓞ   **May – Aug 2023**
- Engineered asynchronous data shipping from distributed probes using **rsync**-based batching, enabling continuous IPv6 packet ingestion.
- Implemented UID-based connection/disconnection protocol and 3s heartbeat mechanism over gRPC with persistent event logging via SQLite.
- Built CLI-driven probe orchestration (start/stop) coordinating capture, transfer, and health monitoring across nodes.
- Designed server-side archival cron-based workflows, structured metadata generation, and post-transfer cleanup to prevent duplicate ingestion and optimize memory usage.

Google Summer of Code 2022 🔗 ⓞ   **May – Aug 2022**
- Architected and implemented a geo-distributed IPv6 traffic collection system with a centralized C&C server using **Python, gRPC, Protobuf, and SQLite**.
- Designed protobuf schemas and built gRPC services for probe registration, client lifecycle management, and SQLite for persistent storage of probe metadata.
- Developed packet capture pipeline with metadata annotation and structured persistence.
- Productionized the tool with system service integration, logging, automated test suite, and Debian packaging **(.deb)**

Exams & Certifications

Charter Financial Analyst (CFA) - Level 2 Passed 🔗   **Nov 2025**
National Institute of Securities Markets (NISM) - Equity & Derivatives - Module VIII   **Dec 2023**
Amazon Web Services - Cloud Practitioner 🔗   **Sep 2023**

Projects

Order Book ⓞ order-book *C++*
- Developed a low-latency limit order book matching engine in C++, implementing price-time priority using **Drogon** as backend framework
- Built an integrated **React** frontend to stream, and visualize real-time market data using web sockets.

Skills

Programming Languages, Libraries: Python, NumPy, Pandas, SQL, Unittest, C++, Dart, Bash - Shell Scripting
Framework & Tools: Flutter, Flask, gRPC, Linux, Debian, Git, Jira, Excel

Key Achievements

Rank 1	KAVACH - A Cyber Security Hackathon by Gov of India ⓞ Citizen Safety	**Aug 2023**
Rank 1	VJTI Centenary Hackathon ⓞ VJTI TPO App	**Jan 2023**
Rank 1	Maharashtra Common Entrance Test (MH-CET) for Engineering [Girls State Merit Rank - 1]	**May 2019**