Sandeep Mehta

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EDUCATION

Integrated Master of Science, Mathematics   Orissa, India | June 2015 - June 2020
NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

WORK EXPERIENCE

INDMONEY | PRINCIPAL SOFTWARE ENGINEER   Gurgaon, India | September 2024 – Present

- Spearheaded multiple banking integrations for investment platforms, including ICICI Bank LRS gateway and Axis Bank's LRS native journey development, while also establishing Axis as a key lending partner.
- Managed Fixed Deposit (FD) portfolio operations with significant UI and customer journey improvements, resulting in 78.6% increase in FD acquisition and 57% growth in investment value (from 10 Cr to 15.7 Cr).
- Led critical security and compliance initiatives, including establishing a PII detection framework, implementing S3 encryption, conducting a SAML integration POC for access control.
- Enabled backend-driven native pages via BFF, reducing app builds/releases and increasing backend control over UI.
- Demonstrated strong project management by aligning technical implementations with revenue growth objectives, security compliance requirements, and enhanced customer experience goals.
- Tech stack: AWS (ElastiCache, SNS, PostgreSQL DB, Lambdas, EventBridge, SQS, API Gateway, Git, Bitbucket, Jenkins), Docker, Python (Django), Golang.

ANGEL ONE | SDE - 2   Bangalore, India | April 2023 – September 2024

- Migrated EDIS application from Java to Golang, which helped in optimizing application release cycle, redesigned technical flow which helped in reducing on-call issues and improved performance.
- Modernized the Pledge application, migrated from Python to Golang, eliminated file-based pledging (reduced time required to provide margin to user from 1-2 hours to few minutes) and reducing operational work (manual files needed to upload and download form CDSL), resulting in over an 80% reduction in client-reported problems.
- Developed a Recommendations and Advisory application that assists in onboarding new users, recommends stock lists (10% new buy came via this list, more than 1Million lists followed), suggests individual stocks, and facilitates the discovery of new stocks across various segments such as ETFs, options, equity, and single stocks, contributing to over 50 Cr in annual revenue.
- Devised E2E DR strategy for multiple application involving different aws components resulting in higher availability.
- Migrated sql server stored procedures to pyspark and golang resulting in improved db performance.
- Applied BFF (Backend For Frontend) methodology, which helps in pushing UI dependency on the backend, resulting in reduced load on the frontend side, reducing development efforts across multiple platforms (Web, iOS, Android), fewer app builds , resulting in better user experience, allowing product team to configure as per user behaviors.
- Created cache policies, multithreading for application performance and effective locking mechanism to handle race conditions, resulting in lower latency for APIs, effective cpu and memory utilization, producing higher throughput.

ANGEL ONE | SDE - 1   Bangalore, India | February 2022 – March 2023

- Part of Post-Trade data platform team, modernized Portfolio of customers using microservices architecture pattern.
- Redesigned Portfolio application in Golang (serving more than 20M users), aggregating data from Kafka, Redis, MSSql, S3, Aurora DB, and creating live portfolio of user in real time, with maximum accuracy and low response time.
- Optimized algorithm (reduced calculation time from 4 hours to 30 min) and pipelines using pyspark and glue job to handle 100 GBs of data every day which helps in obtaining the holdings and Profit/Loss of millions of users. Performed DB optimizations and improvised Golang application logic to handle 200Million API calls per day with minimal latency and high throughput.
- Developed super portfolio of customers which includes SGB, Mutual funds, Small Case, Advisory portfolio, and Equity portfolio in one place, resulting in 45 % higher NPS score .
- Setup data restore policy, logs backup, alerting, and monitoring dashboard using Prometheus, Grafana, Graylog.
- Actively participated in on-call schedules, handled applications deployments, production issues, and client tickets.
- Tech stack: AWS (Glue job, SNS, SQS, Step functions, Lambdas, S3, ECS, Aurora DB, Event Bridge, App Config, Secrets Manager), PySpark, Golang, Python, Docker, Kafka, Redis, GrayLog, Grafana, Python, Microservices.

GOLDMAN SACHS | Software Engineer   Bangalore, India | July 2020 – February 2022

- Member of Third-Party Risk Management Engineering team. Managed vendor onboarding applications KY3P, VRP (in-house applications) used for vendor onboarding, risk assessment, contracting, etc.
- Improved application efficiency, added batch jobs to consolidate data from different applications/resources, and exposed it through REST APIs, PURE browser (in-house application).
- Migrated on-prem application to AWS and legacy entitlement setup which handles auth mechanism.
- Member of Winning team at India's Engineering Hackathon, 2021. Designed workflow-based automation that resulted in reducing business processes (including multiple divisions/teams) from two months to a few days.
- Tech stack: Java (core), Multithreading, Dropwizard, Hibernate, Mockito, Spring Boot, Machine Learning, Workflow, DB2, Gitlab, PURE, BPMN, Microservices, Event-Driven Architecture, Python, SQL, No-SQL Database.

INTERNSHIP EXPERIENCE

ISI, KOLKATA (MACHINE INTELLIGENCE UNIT) | Research Intern   Kolkata, India | May 2019 - June 2019

- Worked on a research project titled "Intraday Stock Recommender System". Used RNN along with LSTM to create a neural network model which predicts stock prices. Improved model training time by introducing intercompany dependencies. Using top k recommendations along with clustering algorithm to provide stock recommendations (following a similar pattern).

E-CONNECT SOLUTIONS PVT. LTD. | Software Engineer Intern   Udaipur, India | May 2018 – June 2018

- Worked on a web application "Complaint Handling System" which allows users to lodge a complaint for a particular area, and it would be automatically assigned to the respective vendor in that area. Created the frontend web forms and backend setup along with database setup.

TECHNICAL SKILLS

Java (core), Golang, Python, Multithreading, Dropwizard, Spring Boot, Machine Learning, Workflow, PURE, BPMN, Event-Driven architecture, SQL, AWS (Glue job, SNS, SQS, Step functions, Lambdas, S3, ECS, EC2, Aurora DB, Event Bridge, App Config, Secrets Manager, ElastiCache), PySpark, Docker, Kafka, Redis, GrayLog, Grafana, Microservices.

PROJECTS

HOUSE PRICE PREDICTION USING NEURAL NETWORK ↗   Python, Keras, Deep Learning, ML

Researched different interpolating polynomials to initialize the weights for Neural Networks and comparing them with Vanilla Neural Network, SVN, Least Square Fitting to predict housing prices.

WEB CRAWLER ↗   Python

Created a web crawler that takes URL of a web-page and scans through the HTML content and crawls through all the hyperlinks present within that page.

DEEP LEARNING PROJECTS ↗   Scikit-learn, Tensorflow, ANN, RNN, CNN, Machine learning models

Worked with different types of Neural Networks and Machine Learning models for regression based prediction, time series data (anomaly detection, trend analysis), Autoencoders, Image classification.