

Supratik Majumdar

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TECHNICAL KNOWLEDGE

Programming Languages: Advanced: Python,
Familiar: HTML, CSS, JavaScript, Ruby
Cloud Services: AWS RDS, Lambda, s3, ec2,
CloudWatch, SES

Databases: MySQL, Redis
Frameworks: Flask, Celery, Pandas,
SQLAlchemy, Zappa, Alembic, Selenium
Source Control / Technologies: git, cron, Sentry,
Docker

WORK EXPERIENCE

Strata, Senior Software Engineer

Bangalore, India; **Jan. 2020 – Present**

Founding engineer for the fractional real estate investing application with 7,000+ users; led team to develop crucial features

Responsibilities:

1. Responsible for initial MVP, playing a key role in securing seed funding. Led the development of the entire backend infrastructure from the ground up for v0 of the application
2. Integrated with multiple third-party vendors reducing failure rate and dependency on a single vendor allowing for a seamless investor onboarding process compliant with industry regulations
3. Built automated notification workflows for investors and appropriate stakeholders to be informed throughout the entire investment process
4. Developed backend infrastructure for B2B platform seamlessly allowing to partner with wealth management firms
5. Integrated internal accounting software within CRM platform for finance and post-investment team; facilitating one-stop access to all asset-related financials. Built user-facing platform API's allowing users to view financials of invested assets and generate comprehensive reports for taxes
6. Developed real-time API for viewing funding status of investment opportunities

Technologies Used: Python, MySQL, Flask, Redis, Docker, AWS (RDS, SES, ec2, s3, Lambda)

Kuvera.in, Senior Software Engineer

Bangalore, India; **Oct. 2019 – Jan. 2020**

Refactor existing infrastructure to increase efficiency for the Direct Mutual Fund investing platform with 400k+ users

Responsibilities:

1. Worked on updating stack from NodeJS to Ruby focusing on modules relating to transaction summarization, forecasted exit load, capital gains, and investor goals planning
2. Refactored and optimized pre-heating cache scripts to reduce computation times by 20%
3. Automated data reporting allowing management to track AUM growth, mutual fund inflows/outflows, SIP inflows/outflows at a fund level

Technologies Used: Python, MySQL, Ruby on Rails, Redis, AWS (SES, ec2, s3, RDS)

Minance, Lead EngineerBangalore, India; **April 2018 – Sept. 2019**

Led engineering team to develop complex application features to accommodate growing user base while minimizing latencies

Responsibilities:

1. Led team to develop and migrate database, existing API layers, ETL pipelines, and business logic modules to new architecture to accommodate the new product features due to immense user growth by over 700%
2. Developed CRM dashboard APIs for investor relations team; facilitating one-stop access to client details across multiple product offerings and asset classes
3. Led development of a product allowing investors to easily receive catered support from in-house tax experts on their tax filings and automated tax report generation for investors on the platform
4. Developed ETL pipeline for real-time market data, with the rate of data throughput of approximately 100 data points per 500ms
5. Implemented cache store to reduce latency significantly of multiple compute-intensive APIs and developed additional features of rates of return and return metrics providing a holistic view of investments
6. Developed dashboard APIs for traders allowing for monitoring of derivative positions, equity and mutual investments at a client and institutional level
7. Developed algorithmic trading strategies using real-time data and architected back-testing infrastructure

Technologies Used: Python, MySQL, Flask, Redis, Docker, AWS (RDS, SES, ec2, s3, Lambda, CloudWatch)

Minance, Automation EngineerBangalore, India; **Jan. 2017 – March 2018**

Founding engineer responsible for the architecture and backend infrastructure of the entire wealth management application

Responsibilities:

1. Designed and developed ETL infrastructure for scraping up to 10 MB of data per day that included user-specific and market data
2. Development of core business modules that allowed for automated generation of reports for investors, using the scraped data to fix an error-prone and time-consuming process
3. Developed functionality for trade notifications up to 700 notifications per day for investors via SMS and emails with automated P&L calculations for each trade
4. Developed and architected v0 of user-facing investor platform API and deployed with AWS Serverless for efficient daily builds and minimal cost increases. Deployed and maintained multiple API environments in parallel to ensure a smooth workflow
5. Consistently refactored core business specific modules for performance optimization leading to reduced latency
6. Developed CRM dashboard APIs for trade executioners to comply with updated industry regulations for trade approval processes. Leveraged AWS Lambda infrastructure to deliver trade approval notifications in a fan-out manner to multiple channels

Technologies Used: Python, MySQL, Flask, celery, AWS (RDS, SES, ec2, s3, Lambda, CloudWatch)

EDUCATION

Institute of Engineering and Management: Kolkata, India

Bachelor of Technology in Computer Science Engineering, 2016