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EXPERIENCE

Webflow, Inc.
Senior Software Engineer, Shared Services [10/2024 - Present]

Key Outcomes Delivered
- Platform for PMM teams to leverage in-app notifications for marketing campaigns and to measure engagement without engineering support.
- Worked to implement visual redesign of in-app notifications, and created centralized analytics for notification engagement.

Technical Contributions Made
- Notifications Platform: Allows product engineers to orchestrate transactional emails and in-app notifications. Also supports PMM team use-cases to launch marketing campaigns. Platform provides resiliency against outages, and analytics related to engagement.

Technologies Leveraged
Typescript, Node, React, SQL, Snowflake, dbt, AWS (S3, SQS).

Vareto, Inc.
Founding Engineer [05/2021 - 10/2024]

Key Outcomes Delivered
- Engineering Lead for company's first SOC2 Type-2 certification, unblocking GTM to engage customers that were Enterprise SaaS vendors.
- Created a Data Platform which reduced customer onboarding times from ~6 weeks to ~1 week.
- Created end-to-end capability for sandbox accounts, allowing prospective customers to engage and trial the product directly.
- Optimized database query latency, and reduced resource utilization of backend services and data platform, reducing AWS costs by 70%.

Technical Contributions Made
- Data Platform: Engineering Lead for setting up Apache Airflow based ETL platform capable of connecting to customer's systems (ERP, HRIS, Sales) for powering in-product reporting use-cases. Maintained the platform from performance and cost perspective, created an architecture that supported extensibility (in terms of supporting new integrations), and provided training, support, and documentation for Solutions and CX team to navigate this platform to support customer tickets.
- Configuration Management: Created foundational backend service to centrally manage customer account and in-product configurations which were initially being managed as scattered, static configs in code.
- Sandbox Accounts: Created functionality to clone a live customer account with all the relevant data and configurations for serving multiple cross-functional needs like QA/testing, debugging/troubleshooting, and demoing to customers.
- Multi-currency Management: Rearchitected the system end-to-end to be able to handle customers with accounting books that contained transactions in multiple currencies.

Technologies Leveraged
Python, SQL, Bash, Pandas, FastAPI, Postgres, Airflow, Docker, LocalStack, AWS (S3, DynamoDB, ECS, ECR, CodeArtifact, CloudWatch, CDK).

Microsoft Corp.
Software Engineer, OneDrive/SharePoint [07/2019 - 05/2021]

Key Outcomes Delivered
- Reduced COGS related to data analytics by reducing running times and optimizing resource utilization of existing assets.
- Platform created for exploratory analytics was popular and successful, which led to adoption by new launched products (MSFT Lists).
- Delivered self-serve analytics solutions for technical (Engineers, Data Scientists) and non-technical (PMs, Leadership) audience.

Technical Contributions Made
- Apache Spark Migration: Moved existing ETL pipeline built using MSFT-proprietary technology to micro-batch Apache Spark jobs, which reduced landing times of usage and experimentation telemetry streams from ~8hrs to ~5mins.
- ETL Pipeline Observability: Added monitoring and alerting on pipeline completion times, telemetry volumes, and infrastructure costs.
- Managed Analytics Platform: Extended scope to allow teams to blocklist events, detect malformed data and quarantine it, detect and scrub PII, and throttle telemetry to avoid overages and runaway costs.
- MSFT Teams Chatbot: Created a no-code, on-the-go way for ODSP Leadership team to track usage trends of top commercial tenants.

Technologies Leveraged
C#, Scala, SQL, Apache Spark, Bash, Microsoft Azure (ADLS Gen2, DataFactory v2, Pipelines, CosmosDB, Synapse Analytics), PowerBI.

Ericsson, Inc.
Software Engineer, Big Data and Analytics [06/2016 - 07/2019]

Key Outcomes Delivered
- In 2018, T-Mobile received numerous awards for the performance of their 4G LTE network. [Reference]
- T-Mobile was able to identify network quality issues and resolve them quickly thanks to Ericsson Expert Analytics (EEA), with EEA's 4G Voice-over-LTE Analytics capabilities being highlighted. [Reference]
- I was part of the core team responsible for integrating EEA into T-Mobile's nationwide telecommunications infrastructure, whose successful adoption at T-Mobile led to adoption of EEA in other countries. [Reference]
- My contribution empowered RAN engineers at Ericsson to work effectively with T-Mobile's Executive Leadership by providing them with detailed analytics about network performance, allowing rapid prototyping of novel performance metrics and algorithms, and prototyping new product surfaces for showcasing analytics results effectively.

Technical Contributions Made
- Telecom Infrastructure Observability: Created monitoring and alerting on health of data streams from eNodeBs.
- Network Performance KPI Reporting: Scaled initial implementations of bash scripts capable of processing ~100MiB/day of Call Data Records (CDRs) into Apache Spark jobs capable of analyzing ~20TiB/day of nationwide CDRs.
- Exploratory Analytics: Built analytics solution for RAN engineers to develop new and improve existing network performance algorithms and metrics on top of production CDR dataset using Apache Spark and ELK stack.

Technologies Leveraged
Python, HDFS, Apache Spark, RHEL Linux, Bash, SQL, Apache HBase, Apache Impala, ElasticSearch.

EDUCATION

Georgia Institute of Technology
MS, Electrical and Computer Engineering
08/2014 - 05/2016

University of Mumbai
BE, Electronics and Telecommunications
08/2010 - 06/2014