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EXPERIENCE

Redmond, WA Microsoft

Software Engineer II · Microsoft AI

March 2024 - Present

o Current role: still doing near-real-time event (big data) processing, delivery, and storage for microsoft.ai/product/ads

Software Engineer · Microsoft Ads Audience Infrastructure

July 2022 - February 2024

- o Built and maintained data pipelines for streaming and batch ingestion and processing: Designed, implemented, and maintained near-real time features for audience targeting, personalized recommendations, and ads conversions calculations using Apache Kafka, Apache Flume, Kafka Streams, and Azure Event Hubs. Leveraged Azure Cosmos DB as distributed data store and Azure Data Factory as data pipeline for offline data.
- o Drastically improved system stability and live-site quality for customers: Enhanced cluster health to uphold high-throughput/high-availability, tuned alert thresholds, wrote validation scripts, and collaborated with partner teams across multiple time-zones. Delivered knowledge sharing sessions, overhauled documentation website, and refined monitoring dashboards. Did cluster monitoring, performance tuning, and resource management.
- o Responsible for data governance and privacy compliance: Managed consumer access control, data catalog, data lineage, and auditing.

Amazon Seattle, WA

Software Development Engineer Intern · Promotions Platform

June 2021 - Sept 2021

- External Promotional Code Management Service: Upgraded outdated Tier-1 service: developed full-stack application using RESTful APIs, Spring MVC, React.js (front-end), Java, MySQL RDS, and Amazon S3 (backend), to add new features to the system underpinning promotions for digital, retail, and physical-store orders worldwide.
- o Overhauled error-prone synchronous storage system: Designed and implemented SQS-invoked AWS Lambda function to asynchronously persist promo codes to Dynamo DB using AWS Cloud Development Kit (Infrastructure as Code), mitigating poison messages and allowing 750,000 more promotions to be processed per day.

Amazon Remote

Software Development Engineer Intern · Seller Debt Control

June 2020 - Sept 2020

- o Developed new microservice that saved 5.1k hours a year through automation: Leveraged AWS services: EC2, Auto Scaling, Cloudwatch, DynamoDB, Docker, S3, Lambda, VPC, and CloudFormation. Designed Data Access Objects for persisting objects to DynamoDB database.
- o Built a native AWS application from scratch: Automated block & reinstatement actions on fraudulent sellers with workflows triggered asynchronously by account charge rate. Configured Ruby and Typescript infrastructure pipelines, created a service model for the new API, and established cross fabric connectivity.

Seattle, WA Amazon

Software Development Engineer Intern · Seller Debt Control

June 2019 - Sept 2019

o Merchant Debt Recovery Investigation Dashboard: Built internal dashboard tool for merchant debt recovery investigators to automate process of writing annotations (1000 manual repetitions/week). Wrote unit+integration tests; resolved package dependency conflicts; managed CI/CD pipelines. Developed UI using Java Server Pages, Spring MVC, JSON, Jquery, and AJAX calls.

PROGRAMMING SKILLS

Languages: Java, C Sharp, Python, JavaScript, Windows PowerShell, SQL, C, C++, Go, Lisp, Prolog, R, Bash Technologies: Apache Kafka message queue, Apache Flume, NoSQL/Azure Cosmos DB, Azure Data Factory, Azure Event Hubs, AWS, UNIX/Linux, Vim, JUnit, Mockito, React, Sass, LaTeX, Git, x86 Assembly

EDUCATION