Kaiwen Chen

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PROFESSIONAL EXPERIENCE

Amazon Advertising, Data Billing   Seattle, WA
Software Development Engineer II   January 2020 – Present

New billing experience
- Design and implement system for post-impression processing and reporting of advertiser billing data
- Define relational database schema for persisting new billing data in data warehouse
- Design, implement, and launch new event-driven microservice to export new data to consumers

Near-real-time advertising measurement
- Process minutely microbatches of advertising data for decoration and aggregation within SLA
- Process more than 1TB of advertising data per batch using Spark (scala) on EMR
- Implement new infrastructure-as-code definitions of 200+ AWS resources using CloudFormation

Vendor experience improvement
- Automated billing reporting onboarding for more than ten new vendors
- Internationalized billing reporting to unblock more than 20 vendors' non-US revenues

Citizenship
- Mentor SDE2 and SDE1 from other teams; mentored an SDE intern
- Interviewed 35+ Software Development Engineer interns

Amazon Web Services, AWS Procurement Experience   Seattle, WA
Software Development Engineer I   July 2018 – December 2019
- Automated testing, operationalized, and launched an electronic invoicing delivery system consisting of four microservices in team of five engineers
- Implemented public-facing APIs using technologies including Lambda, API Gateway, and CloudFormation and launch APIs to private-beta

Amazon Web Services, AWS Payments   Seattle, WA
Software Development Engineer Intern   May 2017 – July 2017
- Implemented event driven reporting of revenue recognition that eliminated 18% of reporting delays
- Developed operational ready, scalable Java 8 web services that can handle 100 transactions per second
- Used AWS services including S3, Lambda, DynamoDB, SQS/SNS to support event driven architecture

EDUCATION

University of Richmond, Richmond, VA   May 2018
B.S., *Magna cum laude,* Computer Science
Minor, Business Administration