John Ahn

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WORK EXPERIENCE

Capital One   **May 2024 – Current**
Principal Software Engineer | Manhattan, NY
- Drove the adoption of event-driven architecture for critical banking microservices, leveraging Kafka for real-time streaming and integrating Splunk, New Relic and Google Analytics for enhanced monitoring and observability.
- Led the development of "Ease for Associates" (E4A) Angular application for Small Business Banking, implementing key features for stop payments, account restrictions, internal transfers.

Meta   **June 2022 – Oct 2023**
Software Engineer | Manhattan, NY
- Developed Meta's Advertising Graph on the Business Data Foundations team—an internal graph representation of advertisers and businesses that powers monetization, enabling revenue growth and policy enforcement.
- Launched Asset Platform v2, redefining data model connections between advertiser organizations and assets, and seamlessly migrating 300M+ connections through controlled updates.
- Developed and implemented new features for Matchmaker, a critical backend service enabling connections between advertising entities in the graph through business rules and machine learning models.
- Resolved over 300 critical tasks during on-call rotations, tackling SEVs, privacy concerns, test failures, legacy code, and bugs to ensure system stability and compliance

Booz Allen Hamilton (Top Secret Clearance, TS/SCI)   **Mar 2021 – June 2022**
Senior Backend Engineer | Belcamp, MD
- Modernized and built Azure Rest APIs for the Department of Homeland Security's Management Cube application and Army's Rainmaker application.
- Engineered Docker-based microservices (NiFi, Spring REST APIs, Kafka, Postgres) and deployed them in isolated networks; advised clients on best practices.
- Earned the "Collective Ingenuity" award for leading development of a Rainmaker data fabric capability that translated sensor data into actionable insights.

Sinclair Broadcasting Group   **May 2020 – Mar 2021**
Data Engineer | Cockeysville, MD
- Architected and implemented scalable solutions to source data from production systems into Sinclair's Azure Data Lake.
- Developed reliable data pipelines using Azure Data Factory, Batch Services, and Functions.
- Migrated SQL Server databases to Azure SQL Server with elastic pools and archived blob data to cold storage, reducing storage costs by 80%.

Freddie Mac   **Feb 2017 – May 2020**
Software Developer | McLean, VA
- Developed the multifamily pricing application "Pricing Manager" used to price loans from $15M to hundreds of millions, supporting over $50B in annual transactions.
- Collaborated with DBAs to design and implement SQL Server objects (stored procedures, views, triggers, tables, functions) to optimize performance and data integrity.

EDUCATION & CERTIFICATIONS

University of Maryland, College Park   **Aug 2010 - May, 2014**
Bachelor's Degree, Economics

MCSA: SQL Database Developer   **Nov 2017 - Present**
Microsoft Certified Professional | License# 14480447

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, PHP, SQL, Typescript, VBA
- **Datastores:** Azure (CosmosDB, Data Lake, Synapse, SQL Server), AWS (S3, DynamoDB), PostgreSQL
- **Frameworks/Tools:** React, Relay, GraphQL, Azure Data Factory, Azure Functions, AWS Amplify, AWS Fargate, AWS Lambda, AWS EC2, Docker, Kubernetes, Git