

# John Ahn

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## Work Experience

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### Capital One | Principal Software Engineer | New York, NY

May 2024 – Present

- Delivered Stop Payments, Account Holds, and Restrictions end-to-end in Ease for Associates (E4A), coordinating development implementation across engineers for Angular UI, RBAC/ABAC authorization, audit logging, AWS Lambda/Fargate services, and OneStream/Kafka integrations for downstream consumer services.
- Led organization-wide migration from GitHub Enterprise Server to GitHub Enterprise Cloud, owning cross-functional coordination, migration runbooks, dry runs, pre-flight validation, and post-migration AWS CI/CD remediation
- Drove event-driven notification architecture for critical banking services, integrating Kafka, AWS SQS, internal APIs, and downstream services to deliver customer alerts with physical mail fallback while satisfying compliance and regulatory requirements.

### Meta | Software Engineer | New York, NY

Jun 2022 - Oct 2023

- Built and evolved the Advertiser Graph in the Ads/Monetization org, modeling organizations and assets to support internal CRM, sales operations, billing, and analytics.
- Shipped Asset Platform v2 with a Program (Ownership) aware Asset Junction and a coexisting migration that wrote to v1 and v2, followed by cutovers for CRM, SRT, and Dataswarm and new downstream tables.
- Wrote rules and proposal types for Matchmaker, a rules engine for graph-change proposals, to validate and apply changes from Candidate Generators and enabling auto-approval for deterministic candidates and routing borderline cases to SRT for human review.

### Booz Allen Hamilton | Senior Software Engineer (TS/SCI) | Belcamp, MD

Mar 2021 - Jun 2022

- Modernized and developed Azure-hosted REST APIs for DHS Management Cube and the U.S. Army's Rainmaker application, improving reliability and ease of integration.
- Built Docker-based microservices using Apache NiFi, Spring Boot REST services, Kafka, and PostgreSQL, and deployed them in isolated networks with hardened images and role-based access.
- Led development of Rainmaker's data fabric to fuse Army, Marine Corps, and Leidos sensor data feeds for target detection, classification, and engagement simulation. Received the "Collective Ingenuity" award following successful range evaluations.

### Sinclair Broadcast Group | Data Engineer | Cockeysville, MD

May 2020 - Mar 2021

- Architected and implemented scalable solutions to land data from production systems into Azure Data Lake storage using Data Factory pipelines, Azure Functions, and REST API connectors.
- Migrated on-prem SQL Server databases to Azure SQL Database elastic pools, tuning vCore/DTU settings and leveraging pooled resources so idle capacity could be reallocated to active databases for better scale and lower spend.
- Partnered with data scientists to ingest third-party audience measurement data, including Nielsen ratings, to support reporting and forecasting for stations and networks.

### Freddie Mac | Software Developer | McLean, VA

Feb 2017 - May 2020

- Developed Pricing Manager, a Visual Basic application used by Capital Markets analysts to price multifamily property loans, supporting \$50B+ in annual transactions with an average deal size of ~\$18M.
- Designed and built the SQL Server data layer for Pricing Manager, including schemas and tables, stored procedures, views, and triggers. Improved query performance through execution plan analysis, targeted indexing, and T-SQL refactoring.

## Education and Certifications

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- **University of Maryland, College Park**, Bachelor of Arts, Economics Aug 2010 - May 2014
- Microsoft Certified Professional, SQL Database Developer, License #14480447 Nov 2017

## Technologies and Languages

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- **Programming Languages:** Python, TypeScript, PHP, Java, SQL, Visual Basic
- **Technologies:** AWS (API Gateway, Fargate, EC2, RDS, Lambda, S3, DynamoDB), Azure (ADF, Functions, ADLS, SQL DB, Cosmos DB, Synapse), Kafka, Docker, Kubernetes, GraphQL, Angular, React, GitHub Actions, GHEC, PostgreSQL, MySQL, Splunk, New Relic, Google Analytics