

Natasha Weiner

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EXPERIENCE

Capital One, New York City — Senior Software Engineer

August 2020 - PRESENT

- Led the development of real-time payment and transaction processing systems, directly contributing to Capital One's fintech infrastructure and enhancing customer-facing financial services.
- Engineered a high-performance data pipeline using asynchronous programming and real-time data streaming, achieving a 300% increase in processing throughput.
- Designed system architecture and application infrastructure, taking initiative to drive projects from inception to completion and ensuring robust, scalable solutions.
- Built cloud-native microservices with **Python**, **TypeScript**, **Java**, **Node.js**, and deployed on **AWS**, integrating seamlessly with core banking systems.
- Championed observability and performance optimization initiatives, reducing system latencies and increasing platform resilience.

AI Recruitment Platform —Personal Project

December 2024 - PRESENT

- Independently designing and building an AI-powered recruitment platform to improve hiring efficiency, leveraging fintech-inspired decision logic and data integrity standards.
- Exploring machine learning models and natural language processing to optimize candidate matching.
- Demonstrating initiative and technical versatility by building this platform outside of work, driven by a passion for AI and product-focused engineering.

Self-Employed, New York City — Computer Science Tutor

August 2023 - PRESENT

- Delivered personalized one-on-one tutoring sessions for undergraduate and high school students, simplifying complex computer science concepts.
- Helped students improve academic performance and confidence in topics like algorithms, data structures, and software development.

Higher Digital LLC, Tysons, VA — Junior Software Engineer

May 2019 - July 2020

- Contributed to the development and optimization of key features for the SEA Results platform, improving scalability and user experience.
- Delivered solutions on tight deadlines while maintaining high-quality standards and operational efficiency.
- Partnered with product and engineering teams to prototype and deliver client-focused solutions.
- Researched emerging technologies to inform product innovation and maintain a competitive edge.

EDUCATION

University of Maryland, College Park — Bachelor of Science, Computer Science

August 2016 - May 2020

University of Maryland Global Campus — Graduate Certificate, Biotechnology: Bioinformatics

August 2021 - December 2022

CERTIFICATIONS

- **AWS Certified Solutions Architect** – May 2022
- **Certified Secure Software Engineer (CSSE)** – December 2021
 - Teach bootcamps to help associates at Capital One code securely and achieve the Associate Certification