

# Matthew Peretick

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mattjp.co

## Experience

### Software Engineer, Amazon Web Services (AWS)

New York, NY — Oct 2020 – Present

Architected and implemented core features for AWS Kendra: an intelligent, managed search engine. Designed and shipped spell check, scaled the system to handle billions of documents, pioneered vector search functionality, and lead the Kendra launch in the AWS PDT region.

*Java | Python | DynamoDB | Elasticsearch | Vespa | EC2 | Lambda | AWS Step Functions | AWS CDK*

### Software Engineer, Even Financial

New York, NY — Jul 2019 – Oct 2020

Engineered key APIs and features for a search platform that enabled users to find and compare financial products and services in real-time. Delivered critical services that added new revenue streams, increased user conversion, and regulated customer privacy.

*Scala | Python | PostgreSQL | ECS | Lambda | Redis | Docker | Travis CI*

### Software Engineer, Capital One

New York, NY — Jul 2017 – Jul 2019

Built and deployed a web service used to aggregate and display cost-savings, security, and resiliency information for all AWS EC2 and RDS instances at Capital One.

*Python | Node.js | TypeScript | React | PostgreSQL | ECS | Docker | Jenkins*

Developed a cloud-based, large-scale distributed system responsible for real-time credit card transaction authorization; optimized for rigid time and resiliency requirements.

*Java | EC2 | Redis | Docker | Jenkins*

## Education

### University of Michigan, College of Engineering

*B.S.E., Computer Science and Engineering - Ann Arbor, MI | 2013 - 2017*

## Personal Projects

#### *NFL Data API*

*Pipeline that extracts and transforms raw NFL play-by-play data into aggregate data per team and publishes the data as a public API.*

#### *March Madness Predictor*

*Serverless application that collects specific college basketball regular season statistics for two teams and calculates a winner.*

#### *College Football Leagues*

*Data-driven simulation of college football rankings using promotion and relegation.*

#### *Verdeckt*

*Website that aggregates and displays independent streetwear brands.*

#### *Fwip*

*Android application that enables users to find and share free food in their vicinity.*