# Matthew Peretick

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**mattjp.co**

## EXPERIENCE

### Even Financial, NY— *Software Engineer*

Jul 2019 - Present

Developed and designed a platform of APIs used for finding & comparing personalized financial products and services in real-time.

**Scala, Python, TypeScript, PostgreSQL, AWS, Docker, Travis**

### Capital One, NY— *Software Engineer*

Jul 2017 - Jul 2019

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

**Python, TypeScript, Node.js, ReactJS, PostgreSQL, ECS, Docker, Jenkins**

Developed a cloud-based, large-scale distributed system from scratch, which was optimized for real-time credit card transaction authorization and complied with rigid time & resiliency requirements.

**Java, Docker, RabbitMQ, Jenkins, Hazelcast, Amazon Linux**

### Stryker, MI — *Software Engineering Intern*

May 2016 - Aug 2016

Designed and built  an application that was used to statistically analyze and visualize datasets  from weight sensors in occupied hospital beds.

**C++, MATLAB**

## EDUCATION

### University of Michigan, MI— *College of Engineering*

Sep 2013 - Apr 2017

**B.S.E.,** Computer Science & Engineering

## RESEARCH

### Multidisciplinary Design Program — *UMTRI Cybersecurity*

Researched methods and techniques  to electronically override a vehicle's controller area network via malicious scripting.

**Python, SocketCAN, Raspbian**

### Taubman College of Architecture — *Energy Optimization*

Developed an application designed to calculate and reduce building energy consumption and greenhouse gas emissions.

**C++**

## PERSONAL PROJECTS

**Fwip** - Android app that uses the Google Maps API to help college students find free food.

**Java, Android, Gradle**

**Verdeckt** - Website that assists users in finding indie clothing brands.

**Python, Flask, AWS, Ubuntu**

**Pics 'n' Words** - Program designed to recreate an image using colored, user-submitted words.

**Python, PIL**

## LANGUAGES & OPERATING SYSTEMS

**Strong** - Python, PSQL, MacOS, Linux

**Experience With** - Scala, JavaScript/TypeScript, C++, Java, SQLite, MATLAB, Bash, Fish

## LIBRARIES & FRAMEWORKS

Pandas, Flask, Cats, Nose, NumPy, ReactJS, Node.js, AngularJS, Requests, Enzyme, Cats, Akka, JUnit

## TECHNICAL SKILLS

AWS (Certified Solutions Architect), Functional Programming, Docker, Jenkins, Travis, CI/CD, Test-driven development, Web development, System design

## ADDITIONAL COURSES & TRAINING

**A Cloud Guru** - AWS Solutions Architect

**Coursera** - Functional Programming Principles in Scala

**Coursera** - Algorithms, Part II