

# Matthew Peretick

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## EXPERIENCE

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

Jul 2017 - Present

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

**Relevant Coursework** - Operating Systems, Database Management Systems, Machine Learning, Artificial Intelligence, Computer Security, Linear Algebra, Discrete Mathematics

GPA - 3.158 / 4.0

## 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, JavaScript, C++, MacOS, Linux

**Experience With** - Java, TypeScript, PostgreSQL, Groovy, SQLite, MATLAB, Bash

## LIBRARIES & FRAMEWORKS

Pandas, Flask, Nose, NumPy, ReactJS, Node.js, Requests, Enzyme

## TECHNICAL SKILLS

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

## ADDITIONAL COURSES & TRAINING

A Cloud Guru - AWS Solutions Architect

Coursera - Algorithms, Part II

Cloud Academy - AWS Solutions Architect