

# MARK FAJET

## Software Engineer

I aspire to work in a challenging position that blends the power of computer science and mathematics to solve problems efficiently and creatively.

## EXPERIENCE

### Software Development Engineer

#### Amazon, AWS Elastic File System

Designed, built, tested, and managed internal tooling to assist in maintaining service durability and availability. Responsible for mitigating problems with all Elastic File System services. Followed Scrum and Agile methodology.

📅 June 2018 – Ongoing 📍 Boston, MA

### Engineering Development Group Intern

#### MathWorks

Carried out deep learning benchmarking in MATLAB and Python frameworks such as Tensorflow, Keras, and MXNet across multiple systems: CPU, single GPU, and multiple GPUs. Conducted exploratory data analysis in MATLAB where I employed linear regression, K-Nearest Neighbors, decision trees, and SVM to build models for prediction and classification to diagnose long startup times.

📅 May 2017 – Aug 2017 📍 Natick, MA

### Web Developer

#### Florida International University

Built a website from scratch using Node and PostgreSQL as a backend and React for the frontend. Managed and developed many sites. Some of these were wordpress sites where I did a lot of work in PHP to add new requested functionality. Others used Angular and Firebase.

📅 Sep 2015 – May 2018 📍 Miami, FL

### Learning Assistant

#### Florida International University

Helped students learn in and outside of the classroom for various courses that focused on assembly language, registers, binary, logic, circuits, caching, paging, multithreading, and GPU programming.

📅 Aug 2016 – May 2018 📍 Miami, FL

### Peer Instructor

#### Florida International University

Taught Programming for Non-Programmers, a course where students learned basic concepts of programming such as variables, decision making, functions, and Object Oriented Programming (OOP).

📅 May 2016 – Aug 2016 📍 Miami, FL

## ACHIEVEMENTS

🏆 **Best Artificial Intelligence and Machine Learning Hack, UHack 2017**

[devpost.com/software/neural-gonna-give-you-up](https://devpost.com/software/neural-gonna-give-you-up)

### Scholarships

🎓 FIU Ambassador Scholarship, Bright Futures Scholarship, FIU SGA STEM Scholarship

## EDUCATION

### 🎓 B.S. in Computer Science

Florida International University, 3.95/4.0

📅 May 2018 📍 Miami, FL

### 🎓 B.S. in Mathematical Sciences

Florida International University, 3.95/4.0

📅 May 2018 📍 Miami, FL

## CERTIFICATIONS

- 📄 **Machine Learning with Python**  
Coursera, License BBLX47UKVKDS
- 📄 **Mathematics for Machine Learning: PCA**  
Coursera, License AGPCKW5US3ZB
- 📄 **Neural Networks and Deep Learning**  
Coursera, License EHKAK5VLYEM5

## LANGUAGES AND TECHNOLOGIES



## PROJECTS

### Web Page Archiving and Content Analysis Tool

[github.com/mfajet/WAT](https://github.com/mfajet/WAT)

Created a desktop application that allows users to download large batches of websites into a custom, compressed file format which allows for easy programmatic access and extracts the metadata and main content of downloaded articles using Natural Language Processing. In collaboration with MIT Lincoln Lab.

### Neural Gonna Give You Up

[github.com/mfajet/Neural-Gonna-Give-You-Up](https://github.com/mfajet/Neural-Gonna-Give-You-Up)

Developed encoder-decoder neural network to process MIDI song files to make them sound more like Never Gonna Give You Up by Rick Astley.

### Rock, Paper, Scissors

MathWorks hackathon

Built and trained a deep learning, image recognition model in MATLAB to determine if one is displaying rock, paper, or scissors in real time using transfer learning techniques.