# MARK FAJET

**Software Engineer**

Boston, MA    markfajet.me
linkedin.com/in/markfajet    github.com/mfajet    devpost.com/mfajet

## 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.

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 in order to build models for prediction and classification to diagnose long startup times.

May 2017 – Aug 2017    Natick, MA

### Web Developer
**Florida International University**

Developed and managed websites built from scratch using technologies that varied from Angular and React to simpler WordPress websites.

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

**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

## LANGUAGES AND TECHNOLOGIES

Python · Java · MATLAB · C · SQL · HTML · CSS · PHP · Git · Linux · Unix · F# · Haskell · Node.JS · React · Swift · React Native · MXNet · CUDA · scikit-learn · SciPy · NumPy

## PROJECTS

### Web Page Archiving and Content Analysis Tool
**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**

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.