

MARK FAJET

Software Engineer

📍 Boston, MA 🌐 markfajet.me
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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

🎓 **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.