

David Grossman

email: davidgrossman1000@gmail.com

phone: 603 320 3552

github: 2gotgrossman

Objective: To intern as a software engineer and work with excellent developers to accelerate my learning.

Education

University of Miami Coral Gables, Florida

May 2019

Bachelor of Science in Computer Science and Mathematics, Minor in Physics

GPA 3.99

Experience

Center for Computational Sciences *Software Intern*

August 2017 - Present

University of Miami, Coral Gables, FL

- Developing a virtual art history tour using a Progressive Web Application with an Angular and NodeJS
- Building a back-end Python-based system deployed on AWS to collect and analyze satellite images for ground deformation data

Research in Convolutional Neural Networks (CNNs) *REU recipient*

May 2017 - Present

University of Miami, Coral Gables, FL

- Using Deep Learning models to analyze internal the relationship between artificial neural networks and the brain
- Exploring the effects of generative neural networks on Tensorflow image recognition models
- Building a multi-purpose CNN to categorize images of different artistic and natural styles

Hybrid Motor Rocket (HMR) *Project Manager*

September 2015 - May 2016

University of Miami, Coral Gables, FL

- Co-led group of 25 students in designing and engineering a rocket
- Instituted a first-principles based design process and instilled respect for psychological biases
- Gained competence on lathe and mill in fabricating a static testing rig and launch stand
- Won 3rd place in Florida-based competition after rebuilding rocket in 3 days due to test launch failure

Intern at BeON Home *Front-End Developer*

June 2015 - August 2015

Smart Home Startup, Cambridge, MA

- Worked on website redesign in CSS/HTML & Javascript and A/B testing

Projects and Skills

Institute of Electrical and Electronics Engineers (IEEE) *President*

January 2017 - Present

- Taught course to members on the skills of a top-end software engineer and preparing for technical interviews
- Organized UM hackathon, UHack, for over 250 students (MLH-sponsored event) and raised \$10,000

Languages: Python • Java • MATLAB • Haskell • Caffe • TensorFlow • CSS/ HTML • Javascript • Fluent in Spanish

Hackathons: PennApps 16 – Top 10 Hack & Best Visualization • MHacks X – IoT Smart Home Application

Tutor and TA: TA for Operating Systems • Tutor for Algebra 1, Calc. 1 & 2, Data Structures and Algorithms

Side Projects: GPU ML Algorithms • Smart personal assistant for task scheduling • Scraping Google Finance data

Relevant Coursework

Computer Science - Data Structures & Algorithms, Operating Systems, Machine Learning, Functional Programming, Parallel Programming, Computer Architecture, Data Science, C Programming & UNIX

Mathematics - Real Analysis, Differential Geometry, Ordinary Differential Equations, Game Theory, Linear Algebra, Complex Analysis, Combinatorics