

Education

Georgia Institute of Technology

B.S. Computer Science, Artificial Intelligence & Devices

Major GPA: 4.0

Expected May, 2021

Skills

Python, Java, C, MATLAB, Docker, AWS, JavaScript, CSS, HTML, git, Unix and Linux command line, Linux VM environments
Microservices, computer vision, signal processing, circuit design

Work Experience

Georgia Institute of Technology

Teaching Assistant, CS 2110 - Computer Organization and Programming (Accepted Position)

Atlanta, GA

August 2019 - Present

- Will hold 1.5 hour recitations twice weekly for approximately 50 students as well as 3+ hours of office hours weekly open to approximately 300 students to teach and tutor core concepts, as well as build and grade homework assignments.

Capital One

Data Engineering Intern, Card and Small Business Tech - Gallery Department

Richmond, VA

June 2019 - August 2019

Gallery is the interface between customers and developers at Capital One. Among other responsibilities, it receives 9000 - 15000 paper and fax customer documents daily from which metadata is manually extracted to create cases and service customer needs.

- Researched machine learning techniques for document classification including Convolutional Neural Networks (CNN), Recurrent Neural Networks, (RNN), and hybrid CNN-RNN models.
- Built a CNN model for classification of scanned images of ingested documents. (Python)
- Held meetings with international vendors providing Optical Character Recognition (OCR) and Intelligent Character Recognition (ICR) software for use within Gallery.
- Combined machine learning models and OCR technology to create a service that could partially automate the document ingestion pipeline within Gallery with respect to document classification and metadata extraction.
- Updated and tested microservices used in the document classification pipeline.

Georgia Institute of Technology

Teaching Assistant, CS 1332 - Data Structures and Algorithms

Atlanta, GA

January 2019 - May 2019

- Held weekly 1.5 hour recitations for approximately 25 students as well as 3+ hours of office hours weekly open to approximately 300 students to teach and tutor core concepts.
- Graded and provided feedback on homework assignments and exams in Java
- Utilized J-Unit testing to test data structures students built in homework assignments.

Emory University

Undergraduate Researcher, Keilholz Laboratory

Atlanta, GA

November 2017 - May 2018

Keilholz Lab is a computational neuroscience research lab dedicated to characterizing the dynamics of neural functional connectivity in the resting state of pathogenic and non-pathogenic human brain states.

- Researched signal processing techniques to pre-process fMRI data as an input to a machine learning model.
- Built a model using t-distributed stochastic neighbor embedding (t-SNE) to extract patterns in Blood Oxygen Level Dependent (BOLD) signal in the resting state of the brain in non-pathogenic states, the absence of such patterns can be used as markers for disease. (MATLAB)

MiMedx

Research and Development Intern, R&D Team

Marietta, GA

June 2017 - August 2017

MiMedx is a tissue engineering company which created placenta-derived tissue allografts for wound healing applications.

- Characterized the elution profile of different tissue allograft products to write a proprietary report guiding future product direction.

Product Development

Febrile Seizure Detection

- Worked collaboratively in a small team to design, model, and build a novel device for the detection of febrile seizures and protection from associated head injuries in infants 6 months to 3 years of age.

Selective Noise Cancellation

- Gained hardware skills working in a team at Hack GT to design an individualized device to selectively noise cancel sounds that trigger panic responses in patients suffering from Misophonia.