

MAI BUI

buim@cua.edu · maipbui.github.io

EDUCATION

The Catholic University of America, Washington, D.C.

Jan 2018 – Dec 2020

Bachelor of Science in Computer Science, Minor in Mathematics and Data Analytics

GPA: 3.77/4.0

Relevant Coursework: Data Structures, Algorithms, Computer Graphics, Machine Learning, Data Analytics, Software Engineering, Web Programming, Operating Systems, Computer Network, Programming Languages, Graph Theory.

WORK EXPERIENCE

Rehabilitation Engineering Research Center DC, Washington, D.C.

Research Intern

May 2019 – Aug 2019

- Utilized deep learning and Intel Realsense SDK to assess the development of hand grasp and predict future outcomes in infants at risk for motor delay.
- Collected and recorded home-based data with several participants for later assessment and analysis.
- Collaborated with a group of researchers to deliver outstanding results on multiple projects by performing exceptional research, communication, and project-management skills.

The Catholic University of America, Washington, D.C.

Web Specialist

May 2018 - Present

- Used Cascade Server CMS to develop new content and workflow on the website to ensure highest quality.
- Implemented campaign emails, collected leads' data, and provided weekly reports on Salesforce.
- Managed daily social media across several platforms to meet group's advertising goals.

PROJECTS

Autonomous Driving Robot

May 2019 – Aug 2019

- Developed an autonomous robot using NVIDIA Jetson Nano board and Raspberry Pi Camera.
- The robot is capable of avoiding obstacles, keeping track of the lane lines, and recognizing determined traffic signs.
- Deep learning frameworks: PyTorch, Tensorflow.

Home assessment of grasp development in infants at risk for fine motor delay

May 2019 – Aug 2019

- Assessed spontaneous hand use using video capture (Intel Realsense D435) and interactive grasp force with instrumented toys in infants
- Signaled potential avenues for early interventions to encourage object exploration and functional hand use.
- Performed different deep learning approaches: DeepLabCut, OpenPose, Deep High Resolution HRNet.

TECHNICAL SKILLS

Technical Software Pycharm, Microsoft Visual Studio, IntelliJ IDEA, Intel Realsense SDK

Programming Languages Python, Java, R

Web Programming HTML, CSS

CERTIFICATES

Intro to Machine Learning with Tensorflow, Udacity

Apr 2020

Machine Learning, Stanford University, Coursera

Oct 2019

Intro to Self-Driving Cars, Lyft, Udacity

Jun 2018

ACTIVITIES

Coding Coordinator – Association for Computing Machinery

Aug 2018 – May 2019

Vice President – International University Social Work Team

Oct 2016 – Jan 2018