MAI BUI

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EDUCATION

The Catholic University of America, Washington, D.C., USA — 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, Machine Learning, Data Analytics, Software Engineering, Web Programming.

WORK EXPERIENCE

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

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 Saleforce.
- Managed daily social media across several platforms to meet group's advertising goals.

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

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.

PROJECTS

Autonomous Driving Robot — Aug 2019 – May 2020

- 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

Programming Languages Python, Java, R, C/C++, MATLAB

Web Programming HTML, CSS

Frameworks/Libraries NumPy, Matplotlib, scikit-learn, pandas, PyTorch, Tensorflow, PyQt

CERTIFICATES

Intro to Machine Learning with Tensorflow, Udacity

Machine Learning, Stanford University, Coursera

Intro to Self-Driving Cars, Lyft, Udacity

HONORS & AWARDS

Grace Hopper Celebration of Women in Computing Scholarship — 2020

Pope Francis Engineering School Scholarship in Catholic University — 2018 - Present