Chester Huynh

□ (+1) 804-402-2270 | **x**huynh1@jhu.edu | **□** ChesterHuynh | **□** chesterhuynh

Education

Johns Hopkins University

Baltimore, MD

B.S. IN COMPUTER SCIENCE, B.S. IN BIOMEDICAL ENGINEERING (FOCUS: DATA SCIENCE). GPA: 3.96

Aug. 2017 - May 2021

- Dean's List (2017 PRESENT)
- Computer Science Coursework: Data Structures (CS226), Computer System Fundamentals (CS229), Algorithms (CS433), AI (CS464)
- Mathematics Coursework: Honors Linear Algebra (MATH212), Probability (AMS420), Statistics (AMS430), BME Data Science (BME475)

Experience

Medtronic Framingham, MA

SOFTWARE ENGINEER, INTERN

May 2019 - Aug. 2019

- Led Summary Website for Automation project as a part of Medtronic's MCS R&D cohort on the Validation & Verification team.
- Composed user needs and requirements documentation to guide project design and execution.
- Developed nightly updating dashboard website to reduce the need for text-heavy XML test result files and time between Agile work cycle sprints.
- Leveraged knowledge in the Django web framework, Python, JavaScript, HTML/CSS, SQL, IIS, SVN, and C#.

Neuromedical Control Systems Laboratory (Prof. Sridevi Sarma)

Baltimore, MD

Undergraduate Research Assistant

Dec 2018 - PRESENT

- Optimized threshold clustering algorithm for locating and labeling SEEG electrodes in brain scans to accelerate patient coregistration by 200%.
- Contributed to NCSL neuroimaging pipeline by implementing Python script that automates localization and labeling electrodes in brain scans.
- Investigated computational models that can identify neural sources for seizures in patients with intractable forms of epilepsy.
- · Leveraged knowledge in Python, Scikit-Image, and Git.

Leadership _

JHU Applied Math & Statistics Department

Baltimore, MD

TEACHING ASSISTANT FOR PROBABILITY AMS420/620

Aug. 2019 - PRESENT

- · Responsible for leading and preparing for review sessions and weekly recitations, holding office hours, and grading assignments and exams.
- Content includes combinatorics; transformations on probability, joint, and conditional distributions; limit theorems; and stochastic processes.

JHU Office of Academic Support

Baltimore, MD

Aug. 2018 - Aug. 2019

- Directed weekly sessions in Organic Chemistry and Discrete Math with 10-15 undergraduates through problem sets to supplement course content.
- Committed to weekly preparatory meetings with other leaders to prepare for sessions.

Research & Projects

TetrisAl

https://github.com/ChesterHuynh/tetrisAl

Jul. 2019

- PERSONAL PROJECT · Developed using Python and TensorFlow/Keras to further understanding in machine learning, deep learning and reinforcement learning.
- · Achieved a score of 700,000 points given scoring schema, using Q-learning neural networks to approximate state-action q-values.

Medhacks: Team TriTag

https://devpost.com/software/tritag

CO-FOUNDER, TOP 10 IN CATEGORY AWARD

Sep. 2018

- Created a modern, digital approach to the medical Triage risk assignment scheme involving an iPad app and an Arduino-based identifier.
- Designed app using React Native framework and utilized Google Firebase server to house human-readable JSON data entries.

Achievements .

2018 Medhacks 2018 Finalist, Developed digital tool for first responders to assign risk levels to patients at incident sites. Baltimore, MD

2017 sheets into roadways as a method for signaling of traffic light operation.

MIT Think 2nd Place Winner, Funded with a \$1000 grant to conduct a project with a peer on integrating piezoelectric

Cambridge, MA

Skills

Programming Skills (Proficient): Python, Java, C++, (Learning): C, HTML/CSS, JavaScript

(Proficient): NumPy, Scikit-learn, Django, UNIX, (Learning): TensorFlow/Keras, PyTorch, Pandas, PyGame, R, Git, Bash scripting, D3,

Technologies/APIs (Beginning): Microsoft SQL, PostgreSQL **Human Languages** English, Cantonese, Mandarin, Spanish

Extracurriculars

Hippocrates Medical Review (HMR)

Baltimore, MD

BIOTECHNOLOGY COMMITTEE WRITER

Aug. 2018 - PRESENT

• JHU's medical editorial that publishes articles on the official HMR website and prints articles in the HMR journal publication.

• Authored three articles that have been featured on the HMR website with one featured in the HMR 2019 journal publication.

TEDxJHU Raltimore MD

MULTIMEDIA SPECIALIST Aug. 2017 - PRESENT Responsible for photographing and recording speaker events and advertisements as well as editing and creating event and promotional videos.

• Created promotional videos for events as well as edited and curated videos for the official TEDx site and YouTube channel.