

Chester Huynh

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Education

Johns Hopkins University

B.S. IN COMPUTER SCIENCE, B.S. IN BIOMEDICAL ENGINEERING (FOCUS: DATA SCIENCE). (GPA: 3.95)

Baltimore, MD

Aug. 2017 - May 2021

- **Dean's List** (All semesters)
- **Computer Science Coursework:** CS226 Data Structures, CS433 Algorithms, CS421 Object Oriented Software Engineering
- **AI/Machine Learning Coursework:** CS464 AI, CS475 Machine Learning, AMS467 Deep Learning in Discrete Optimization
- **Mathematics Coursework:** AMS420 Probability, AMS430 Statistics, AMS730 Statistical Theory, AMS792 Matrix Analysis
- **Teaching Assistant/Tutoring:** BME111 Modeling & Design, AMS171 Discrete Math, AMS420 Probability, CS464 AI, AMS430 Statistics

Experience

Microsoft

SOFTWARE ENGINEER, INTERN

Redmond, WA

May 2020 - Aug. 2020

- Led proof-of-concept project as a part of the Cloud BI & Analytics Team under E360 Data Intelligence in Microsoft's CSEO division.
- Developed an unsupervised machine learning model for rogue access point (AP) detection which identified 6x more rogue APs on worldwide enterprise network than current static detection with stakeholder validation.
- Created data analytics report with PowerBI to deliver model results for business stakeholders.
- Leveraged modern cloud technology to service big data and perform data science experiments.
- Learned modern DevOps principles and standard Agile methodology, working in 2-week sprints with a team of 12 engineers.
- **Technologies Used:** Python, Azure Databricks, Azure DevOps, Azure SQL, Azure Active Directory, PowerBI.

Medtronic

SOFTWARE ENGINEER, INTERN

Framingham, MA

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 sprints.
- **Technologies Used:** Django web framework, Python, JavaScript, HTML/CSS, SQL, IIS, SVN, and C#.

Neuromedical Control Systems Laboratory (Prof. Sridevi Sarma)

UNDERGRADUATE RESEARCH ASSISTANT

Baltimore, MD

Dec. 2018 - PRESENT

- Optimized threshold clustering algorithm for locating and labeling SEEG electrodes in brain scans to accelerate patient coregistration.
- Contributed to SEEK pipeline by implementing Python script that automates localization and labeling electrodes in brain scans.
- Implemented a variation of the Random Forest algorithm specialized for classification tasks with multivariate time series data.
- **Technologies Used:** Python, C++, Jupyter, Docker, and Git.

Skills

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

Technologies/APIs (Proficient): Numpy, Pandas, Scikit-Learn, Databricks, (Learning): TensorFlow, PyTorch, PowerBI, (Beginning): Django

Projects

Hire

COURSE PROJECT (CS421)

<https://oozers-hire.herokuapp.com/>

Jan. - May 2020

- Developed an all-in-one web application to streamline the application process for potential teaching assistants for the CS department.
- Primary contributor to database modeling and back-end development. Contributed to front-end development.
- Technology stack consisted of Java, Spark, PostgreSQL, Handlebars, HTML/CSS, Javascript, and Heroku.

TetrisAI

PERSONAL PROJECT

<https://github.com/ChesterHuynh/tetrisAI>

Jul. 2019

- Developed using Python and TensorFlow/Keras to further understanding in 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.

Extracurriculars

Hippocrates Medical Review (HMR)

BIOTECHNOLOGY COMMITTEE WRITER

Baltimore, MD

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

MULTIMEDIA SPECIALIST

Baltimore, MD

Aug. 2017 - PRESENT

- Responsible for photographing speaker events, creating promotional videos, and editing speaker videos.
- Created promotional videos for events as well as edited and curated videos for the official TEDx site and YouTube channel.