Richard Sear

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Education

BACHELOR OF SCIENCE | MAY 2021 | THE GEORGE WASHINGTON UNIVERSITY

- · Majors: Computer Science, Physics
- · University Honors Program | GPA: 3.9
- · Student Organizations: GW ACM, GW Undergraduate Review, GW Robotics
- · Member of the Tau Beta Pi Honor Society

Work Experience

UNDERGRADUATE RESEARCH ASSISTANT | GWU PHYSICS DEPARTMENT

SEPTEMBER 2018 - PRESENT

- · Working with Dr. Neil Johnson's research team, studying many-body physics of user behavior in online extremist groups
- · Using Python modules (Scikit-learn and Microsoft CNTK) to conduct machine learning experiments on image data
- · Presented work at GW Research Days student colloquium (April 2019)

STUDENT RESEARCHER | JOHNS HOPKINS HLTCOE SCALE PROGRAM

MAY 2019 - AUGUST 2019

- · Worked with small research team on topic identification and named entity recognition tasks
- · Utilized TensorFlow to analyze effects of reduced- and partially reduced-size training sets
- · Iteratively fine-tuned Google's BERT model using a series of language processing tasks

CHIEF TECHNOLOGY OFFICER INTERN | BUCHANAN & EDWARDS, INC.

MAY 2018 - AUGUST 2018

- · Trained machine learning model to identify primary emotions with ~15% average error rate (Microsoft CNTK for Python)
- · Conducted unsupervised K-means clustering using Python Scikit-learn module
- · Delivered Azure webapp built with Flask to analyze uploaded images

Projects

See more on my website's "Projects" page

· Full-stack webapp: registration/advising system developed on a LAMP AWS server	April-May 2019
· Heartrate monitor: data gathering/analysis system using Arduino, C, and various sensors	April-May 2019
· 2019 SEAS Hackathon project: "Friendly FOIA" – a tool to automate FOIA requests for journalists	February 2019
· Software Engineering Project: "Alien Attack" – an arcade-style game in Java	December 2018

Skills & Abilities

TECHNICAL SKILLS

- · Software: Visual Studio Code; Microsoft Office, Azure; Git; Arduino; Adobe InDesign, Photoshop, Illustrator; Google Analytics
- · Proficient in Python, Java, C, Bash, PHP, MySQL, HTML, CSS; familiar with MATLAB, LaTeX

LEADERSHIP/TEAMWORK

· Layout Manager, GW Undergraduate Review

· President, GW Robotics April 2018-Present

September 2017-Present