

Richard Sear

(414) 491-6731 | 3283 N. Knoll Ter, Milwaukee, WI 53222 | searri.github.io | searri@gwu.edu

Education

BACHELOR OF SCIENCE | MAY 2021 | THE GEORGE WASHINGTON UNIVERSITY

- Majors: Computer Science, Physics
- University Honors Program | GPA: 4.0
- Student Organizations: ACM, GW Undergraduate Review, GW Cyber, GW Tech Collective, GW Robotics

Work Experience

CHIEF TECHNOLOGY OFFICER INTERN | BUCHANAN & EDWARDS

MAY 2018 – AUGUST 2018

- Trained machine learning model capable of identifying major facial emotions with a 7% average error rate
- Implemented convolutional neural network using Microsoft's Cognitive Toolkit API for Python
- Conducted unsupervised K-means clustering using the Python Scikit-learn module

TEACHING ASSISTANT | KUMON CENTER OF WAUWATOSA

JUNE 2015 – AUGUST 2017

- Assisted students 1-on-1 with math and reading skills from kindergarten to 12th grade levels
- Conducted customer service with parents to resolve scheduling and grading issues
- Managed database with student grade information

Projects

GW ROBOTICS TRINITY FIREFIGHTING COMPETITION

SEPTEMBER 2017-APRIL 2018

<https://github.com/GW-Robotics/2018-Firefighter>

- Collaborated in programming sub-team to program a maze-navigating robot using Arduino
- Formulated algorithms to seek candle using infrared, ultrasonic, and gyroscopic sensors
- Personally developed wall-following algorithm and managed project board in Github

GW UNDERGRADUATE REVIEW: VOLUME 1

JANUARY 2017-APRIL 2018

<https://scholarspace.library.gwu.edu/files/w9505060b>

- Utilized InDesign, Illustrator, and Photoshop to create the first volume of GWUR
- Worked with editorial team and authors to obtain and construct journal elements
- Published journal: ISSN 2578-9201

Skills & Abilities

TECHNICAL SKILLS

- Software: Microsoft Office; Eclipse; Atom; GitHub; Adobe InDesign, Photoshop, Illustrator; Google Office, Sites, Analytics, Data Studio
- Languages: MATLAB, Java, HTML, CSS, Arduino, LaTeX, Mathematica, Python; familiar with JavaScript
- Operating Systems: Windows, macOS, Android, iOS

LEADERSHIP/TEAMWORK

- Layout Manager and Science/Engineering Editor, GW Undergraduate Review September 2017-Present
- Vice President, GW Robotics April 2018-Present
- Co-Principal Investigator, High School Science Team – NIH WInSTEP SEPA Student Research Award September 2015-June 2017
- iEARN Tajikistan – Photojournalism 2.014: Heritage, Hunger, and Food Security August 2014