

Derek Yu

SOFTWARE ENGINEER

☎ (240) 671-5525 | ✉ derek.c.yu@gmail.com | 🌐 DerekCYu | in derekcyu

Education

University of Maryland, College Park

College Park, MD

BACHELOR OF SCIENCE IN COMPUTER SCIENCE, GPA: 3.67/4.0

May 2022

- Minor: Statistics
- Academy of Machine Learning
- The President's Scholarship Recipient

Skills

Languages Python, JavaScript, Java, Ruby, OCaml, R, C, HTML/CSS
Technologies React, Redux, UNIX, SQL, MATLAB, Microsoft Office

Experience

MITRE

Remote

SOFTWARE ENGINEER INTERN

June 2020 - PRESENT

- Currently working on two different projects with the SW Solutions & Technologies Department
- Assisting with front-end web development using React and Redux to create an environment to facilitate information exchange between investment firms, individual companies, and the government
- Working on automating the process of identifying satellite by signals using Python and MySQL

Human-Computer Interaction Lab

University of Maryland, College Park

RESEARCH ASSISTANT

June 2019 - Aug. 2019

- Created a multiplayer, virtual reality application using the Unity game engine and Photon Unity Networking
- Aided in the development of an application to help people with dementia by developing an application that allows for cross-platform interaction between the Oculus Quest and PC

NASA Goddard Space Flight Center

Greenbelt, MD

INTERN

June 2017 - Aug. 2017

- Participant of National Space Club & Foundation Scholars Program
- Renovated the Electromechanical Systems Branch Database using HTML, CSS, and other tools on NASA's XSpaces platform to make it aesthetically appealing and organized
- Entered and organized past mission files (GEDI, TIRS I, TIRS II) into the database to allow for easy access of vital information

Social & Scientific Systems

Silver Spring, MD

WEB CONTENT DEVELOPER

June 2017

- Collaborated with tech companies and nonprofits within the field of public health to provide a common format for publishers, easing the exchange of educational, scientific, and medical research
- Converted statistical briefs in HTML and PDF format into Book Interchange Tag Suite (BITS) format, and verified valid XML documents

Projects

Fox Sports University Challenge

College Park, MD

PARTICIPANT

Jan. 2019 - May 2019

- Research on the gaming and esports market, players, and fans
- Research on how millennial and Gen Z peers consume and prefer to consume sports
- Develop a well-rounded creative marketing campaign that FOX Sports and Caffeine can utilize together in order to increase awareness and drive usage and engagement to the Caffeine broadcasting platform

UMD Over Sand Vehicle Project

College Park, MD

PROGRAMMER, FIRE SUPPRESSION TEAM

Jan. 2019 - May 2019

- Worked on a team to build and program an autonomous over-sand vehicle
- Programmed OSV to navigate to within 250 mm of fire site, detect the number of active flames present, and extinguish all flames except for one
- Programmed using Arduino to navigate OSV around obstacles and extinguish flames using ultrasonic and thermal sensors