

Alex Yu

Education:

B.S. Computer Science, University of Maryland College Park
Junior Computer Science Major and 2nd upper-level concentration in Economics
3.4 GPA
Spring, 2018

Software Skills:

Programming Languages:

- Java, Python, Ruby, Javascript, MySQL, C, C++, OCaml, Prolog

Operating Systems:

- Windows 8/8.1/10, Linux (Ubuntu)

Other:

- Eclipse, GIT, Unix Shell, TCP/IP
- Side Projects on AI, Web Scraping, Scripting, and Automation
- <https://github.com/AlexYuCs>

Awards:

- North American Zero Robotics Finalist 2014
- National Merit Scholarship (4 years) 2014-2018
- University of Maryland Presidential Scholarship (4 years) 2014-2018
- UM Merit Scholarship (4 years) 2014-2018
- Community Service Award by Chinese American Doctors Association 2014

Professional Experience:

- **LinksMedia, Rockville, MD** **June 2016 - August 2016**
System Administrator and Information Technology Intern
 - Implemented server updates and oversaw routine maintenance of the company's servers to ensure network security.
 - Provided technical support to users, access to servers and shared file system.
 - Provided support to company's website and addressed potential security issues.
 - Prepared, updated and presented to the team a comprehensive strategic IT plan including a full assessment of current status and issues of IT system and recommendations and action plan for improvement.
 - Resolved various technical issues involving software and operating systems for PCs.
- **Interi Systems(a NASA Subcontractor), Columbia, MD** **July 2014 – August 2014**
HUD Designer and Programmer
 - Designed and implemented an Arduino application to transfer and record system information of RC cars.
 - Realigned and modified existing code to expand functions and utilities of the application for UDP transmissions.
 - Successfully developed and tested a 3D rendering of the vehicle using Python.

- Converted the raw accelerometer and gyroscope data into usable information.
- Created an HUD in the Python to present the information in an intuitive visual manner with velocity, yaw, and rpm indicators.
- **NASA Zero Robotics** **August 2013-June 2014**
Lead Programmer
 - Analyzed functional requirements, developed code that placed the team into the top 10 of the 2D final national competition.
 - Coordinated team events and coding practices throughout the year and ensured team members collaborated and met the project timeline.
 - Designed and optimized several algorithm options in preparation of final demonstration at MIT Space Lab and completed QA editor work for projects that teammates submitted.
 - Entered the Zero Robotics finals at MIT and implemented the code for Robot to finish scheduled movement live in the International Space Station.

Volunteer Experience:

- **Good Vibe Tribe, College Park, MD** **August 2015-Present**
Treasurer
 - Managed club finances and submission of budget reports to the University of Maryland SGA(Student Government Association).
 - Provided mentoring and leadership to over 300 club members and encouraged a friendly atmosphere to improve college students' sense of wellbeing.
 - Organized campus wide activities including group meditations and planned events to promote positivity within the student body.
- **Asian American Healthcare Center, Columbia, MD** **February 2012 – Present**
Data Management and Front Office Assistant
 - Assumed responsibilities for data entry and management of patient medical records, socioeconomic characteristics, eligibility information etc.
 - Maintained file organization and ensured accuracy and privacy of access to electronic medical information.
 - Screened and assessed quality of patient data captured with clinicians to support smooth operation of the clinic and timely retrieval of information for patient encounters.
 - Shadowed and observed physicians during patient visits along with medical students from Johns Hopkins University and University of Maryland.
- **El Salvador Project, College Park, MD** **May 2016 -- Present**
Charitable Event Planner
 - Partnered with Tasajera Summer School Project in El Salvador.
 - Worked with project managers to plan thrift sale fund raising and several other events for rebuilding project of a local school.
 - Raised over \$500 for the nonprofit organization.
- **MedStar Union Memorial Hospital, Baltimore City, MD** **July 2012 – August 2012**
Patient Assistant
 - Shadowed physicians of various specialties to learn patient interactions.
 - Assisted pre-op and post op patients during their stay at the hospital campus.

References available upon request.