Yiren Qu

QuRamon.com

Email: **ramonqu@uw.edu**

Tel: 628-253-3267

Current City: Seattle, WA

EDUCATION

B.S. in Informatics
University of Washington
Jun 2020 (expected)

SKILLS

Python	Node. JS
OpenCV	Arduino
Java	Networking
C# WPF	Linux
C# ASP .NET	ROS
JavaScript	Git
RESTful	Database
HTML/CSS	R

CERTIFICATIONS & AWARDS

- Microsoft Technology Associate Certification: Software Development Fundamentals (C#)
- I-Sweeep World Project Olympiad Vermont Representative in Houston, TX
- The Yale Science & Engineering Association's Award for the most outstanding exhibit on STEM fair in computer science, engineering, physics or chemistry
- The US Air Force Certificate of Achievement for an outstanding engineering fair project

PROFESSIONAL EXPERIENCE

Web Developer, IT Assistant — **University of Washington, School of Dentistry**
Mar 2018—Present
Design and implement RESTful C# ASP .NET website applications and internal IT applications. Maintain current WordPress website content, graphics, and code and customize the WordPress Plugins.

Research Assistant — **Personal Robotics Lab**
Nov 2017 – Present
Develop wireless transmission methods with Python & C++ for high-volume streaming data between the robot end effector sensors and the main central computer on ROS platform. Design 3D connector for the embedded board and the robot. (Linux embedded system)

Web Developer Summer Intern — **Aresoft Co.,Ltd.**
Jul 2017 – Aug 2017
Collaborated with my team to improve the C# .NET MVC CRM (Customer Relationship Management) website which specialized for privately-offered fund companies. Worked closely with clients to modify the features. (SQL, C#, .NET, Web MVC)

UI Developer, Software Engineer — **Astrometric Instruments Inc.**
Dec 2016 – Sep 2017
Built and tested a telescope pointing model solver and error correction desktop software (WPF C# .Net) and collaborated with team members on building the system. Developed the star map graphing library with C#.

Embedded System Developer — **VEIL Inc.**
Nov 2016 – Sep 2017
Designed, Built and tested a skateboard/snowboard force detect system, communicating with user's phone via Bluetooth in real time. Collaborated with cross-functional development teams on the products. (Arduino, Embedded System, Node.js, Electronics, wireless networking)

RESEARCH PROJECTS

Wirelessly Streaming High-Volume Data From Robot End-effectors
Nov 2017 - Present — **Personal Robotics Lab**
Design, research and develop a solution to transmit perception data wirelessly for ADA in the Personal Robotics Lab, which on the Robotics Operating System platform. (Embedded System, Python, C/C++, Linux, ROS, Git)

Li-Fi Visible Light Data Communication System
Oct 2016 - Apr 2017
Developed the Li-Fi communication system transmitted data wirelessly via light between LEDs and solar panel with two Arduinos as transmitter and receiver. The high-level communication methods are programmed with C# and Python

A Hybrid Recommender System For Diet Improvement
Sep 2015 – Apr 2016
Designed a recommender system to predict user's taste preference. Mix the taste preference and food heath index to help users to improve the dieting experience. (Python, Pandas)