Yoshimasa Kitaguchi (Yoshi)

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Education:

Purdue University, West Lafayette, IN   **August 2017 - Present**
Bachelor of science in Computer Science   **Current GPA: 3.83/4.00**
Graduation date: May 2021

Completed Courses:

Computer Science courses:
- Object-oriented programming, Computer Architecture, Data Structure and Algorithm, System Programming

Mathematics courses:
- Linear Algebra, Differential Equation, Probability

Experience:

C Design Lab - Purdue University   **May 2019 – Present**
Undergraduate Research Member, Software Developer
- Collaborated with three Phd students on two CHI research papers for year 2020
- Undertook 20% of user study application part of the project including designing UI and developing program for analyzing students' knowledge space based on the concept of Q-matrix
- Developed objected detection program using python and C# by implementing SSD and Depth information from Kinect v2 to increase accuracy of computer object detection
- Built surface projection program using AR Core and Vuforia in 5 days

Personal Shell Project   **July – August 2019**
- Built a shell program using Lex, Yacc, C, and C++ on Linux that can execute 25 Unix commands and 5 extra commands (e.g. merge directories) in 2 weeks

MEAN Stack Web Development Project   **April – September 2018**
- Created a web application using MEAN stack to allow professor and students to discuss and annotate on specific research paper
- Implemented MongoDB to create database that can store flexible schema of students' information
- Developed Frontend UI using Angular and Typescript to increase the work efficiency and readability
- Refactored the codes written in Express/Node.js to decrease the overall runtime of the program by 10 %

Programming Languages:

- C++ (professional), C (professional), C# (fluent), JavaScript (fluent), Python (fluent), JavaScript (fluent), Java (intermediate), CSS (intermediate), HTML (intermediate)

Skills:

Fluent Languages:
- English (Native Level), Japanese (Native Level), Chinese (Business Level)

Other Skills and Experiences:
- MySQL (Intermediate level), R studio (Intermediate level), Matlab (Intermediate level)

Campus Involvement:

Purdue Virtual Reality Club   **February 2019 – Present**
- Contributed on Developing new VR application for the field of education and game design

RoboMasters Robotics Competition Club: **August 2018 – December 2018**
Computer Vision Team
- Implementing OpenCV, GPU-Accelerated Calculation, Haar Cascades to improve accuracy of robots detecting different target objects

Awards:

Dean's List and Semester Honors   **Fall 2017 & Spring 2019**
Harvard Debate Club certificate   **September 2016**