

# XiYuan Huang

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## EDUCATION

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**Bachelor of Science in Electrical and Computer Engineering**

Sep 2017 ~ Present

**Minor: Computer Science**

Oregon State University, Corvallis

**Relevant courses:** Computer Architecture, Operating System, Computer Network, Network Security

## PROJECTS

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**Bird Deterrent System**

Jan 2021 ~ Present

- Developed a device that can warn the bird before it collides with a building window
- Applied **OpenMV** as the computer vision microcontroller to reduce software incompatibility
- Implemented **Frame Differencing** to identify the difference between the current and previous image
- Adopted **MicroPython** and its sensor library to build the connection between the microcontroller and different environment sensors

**To-Do List Website**

November 2020 ~ December 2020

- Designed a website that allow users to create and manage to-do lists
- Structured and rendered the content of the website by applying the **EJS**
- Installed **Express JS** and **Mongoose** to receive the user's inputs and update the database at real time
- Collected the user's inputs on the **MongoDB Atlas** and Deployed the webpage through **Heroku**

**Simon Game**

September 2020 ~ October 2020

- Remade the Simon Game on the website
- Built the Simon Game elements and the website user interface by using **HTML** and **CSS**
- Constructed the user interaction program via **jQuery** to obtain user input and return the result of game

**Smallsh Shell**

July 2020 ~ August 2020

- Programmed a simple shell in C which can run some basic commands as Bash
- Operated Unix Process API to create a process for each command
- Coded programs that can employ I/O redirection

## EXPERIENCE

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**Online Selling Store Worker**, JiaNuoLu Leather Inc. — GuangZhou, China

June 2019 ~ August 2019

- Managed and edited the detail of different backpack items on eBay
- Set up advertising campaigns and promotional activities
- Served and provided assistance to the consumer

## SKILLS

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**Programming language:** C/C++, Python/MicroPython, Assembly language

**Web development language:** HTML, CSS, JavaScript, jQuery, Node JS, Express JS, EJS

**Tools:** Altium designer, Git, MATLAB, Visual Studio, MongoDB, Mongoose API, PuTTY, Heroku

**Microcontroller usage:** Arduino UNO, OpenMv(STM32), FPGA(Intel)