Zixiao Shan

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University of Vermont | Class of 2018
Bachelors of Science | Computer Science (Major) | Mathematics (Minor)
LinkedIn: https://www.linkedin.com/in/zixiao-shan-85a34915a/ | GitHub: https://github.com/zshan1

TECHNICAL SKILLS

Languages: C, C++, HTML, Java, JavaScript, jQuery, Linux, Matlab, Python, PHP, Swift, SQL.
Version Control: GitHub, GitLab.
Operating Systems: Mac OS, Windows.
Software: CLion, Eclipse, IntelliJ, Microsoft Office, NetBeans, Slack, Xcode.

RELEVANT EXPERIENCE & COURSE WORK

Snack Shopping Website - Food Destiny December 2018

- Built an online snack vendor where users can explore snacks by categories, search specific snacks by name, add them into cart and proceed to checkout with PayPal API.
- Language: PHP, HTML, CSS, SQL, JavaScript & PayPal Checkout API.
- Won 3rd place in 2018 UVM CS Fair.

Leap Motion - Gesture Controlled Calculator December 2018

- Designed and built a gesture-controlled calculator.
- This program recognized hand gestures and translated information into a database; using K-NN algorithm to distinguish numbers they represent, and then conduct calculation.
- Hardware: Leap Motion | Language: Python.

Cookie Ordering Website - IBMunchin March 2018

- Designed and built a cookie ordering system. IBM API "vendor" was trained to assist ordering process, allowing customers to order cookies via text message. The API pushes order information into database, and that information will be displayed at the merchant's end in real-time update format.
- First prize award recipient for the 2018 UVM Code Fest (Sponsored by IBM and State Street).
- Language: PHP, HTML, CSS, SQL & API "Vendor".

Raspberry Pi - Automatic Cooling System April 2017

- Designed and built an automatic cooling system with Raspberry Pi.
- Automatically regulates fan based on room temperature, user can also manually control the fan through website, or schedule event ahead; Website can display average temperature based on temperature stored in database, and can suggest the best time to turn fan on based on temperature and time stored in database.
- Hardware: Raspberry Pi | Language: Python, PHP, HTML, CSS & SQL.

C++ Application - Car Race April 2017

- Created a car game that asks the user to keep avoiding barriers for as long as possible.
- User can shift lanes by pressing keyboard, game can be saved and continued later; Car will speed up depending on user's performance.
- Language: C++, OpenGL.

Java Application - Graph Draw December 2016

- Designed and built a java application to help inspiring their creativities.
- This application allows children users to draw, resize, connect, color specific shapes.
- Language: Java, JavaFX.

ADDITIONAL WORK EXPERIENCE

IOS Application Developer August 2017 – June 2018

- Worked in a 5-person team on developing an automatic attendance recording application and an event management website for Dr. Jim Hudziak, from University of Vermont Wellness Environment.
- This app maintains a beacon range which automatically records attendance when students enter the classroom, not needing to be in foreground while in use. Attendance data is pushed into database, which the professor can manage through the "We Attendance" website.
- Hardware: Estimate Beacon | Language: Swift, PHP, HTML, CSS, SQL & JavaScript.