ZUOMIAO (ZONA) HU

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SKILLS

Languages: JavaScript, C++, C, Python, Java, SQL, Bash, HTML, CSS

Technologies: React.js, Firebase, Google Cloud, Linux, Git, Vim, Raspberry Pi, Photoshop

PROJECTS

OpenTM Event Finder Project (devpost.com/software/study-mates)   *Jan 2020 - Present*

- Created an event finder in **StarterHack 2020** in a team of 4 using **React.js, Firebase, Google Map API, JavaScript** and **HTML**
- Resolved issues related to asynchronous **JavaScript** utilizing **async/await** functions
- Deployed a web application on **Google Firebase**, and managed a **No-SQL** database on **Google Cloud**

Crowdedness Monitor (github.com/ZonaHu/crowdedness-monitor)   *Sep 2019 - Dec 2019*

- Developed a crowdedness monitor using **Python** and **Raspberry Pi** to measure real-time crowdedness in public places
- Monitored the packets transmitted by Wi-Fi devices in the **IEEE 802.11** data link layer and obtained their unique MAC addresses**;** deployed 2 devices in 2 libraries
- Worked on the backend features such as time localization and input sanitization
- Wrote a project proposal, final report and presented to the Software Engineering Cohort

LEGO EV3 Robotics Design Project (github.com/HITGIF/LEGO-iBASE)   *Jul 2019 - Aug 2019*

- Designed and built a robot from LEGO pieces and sensors to complete multiple missions, and programmed with **LEGO Mindstorms EV3 software**
- Collaborated with 2 team members on troubleshooting and participated in LEGO EV3 Robotics **Hydro Dynamics Challenge**

EXPERIENCE

WATonomous (University of Waterloo Autonomous Vehicle Design Team)   *Jan 2020 - Present*
Core Member   *Waterloo, ON*

- Design and develop the UI design of the team website to improve responsiveness and mobile-friendliness
- Brainstorm and redesign promotional materials, swag, and car wraps

Highroad Academy Math Club   *Sep 2018 - Jun 2019*
Founder & President   *Chilliwack, BC*

- Founded **the first math club** at Highroad Academy, promoted the club by **designing posters** and **giving speeches**, and planned various events
- Tutored over **20** classmates and coached **4** students to achieve **Top 25% over Canada** in the math contests such as the Euclid Contest and Canadian Senior Mathematics Contest, which were held by the University of Waterloo

HONORS & AWARDS

- University of Waterloo Presidents Scholarship of Distinction   *Sep 2019*
- University of Toronto Girls in Engineering Exploration Event Travel Award   *Apr 2019*
- Contests with distinctions in all: Euclid, Cayley, Fermat, CSMC, Michael Smith   *2017-1019*
Challenge, BC Secondary Mathematics Contest, Zhejiang Adolescents Science & Technology Innovation Contest Intelligent Robotics Group

EDUCATION

University of Waterloo   *Sep 2019 - May 2024*
Candidate for Bachelor of Software Engineering   *Waterloo, ON*