Michael Wu

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EXPERIENCE

GENERAL MOTOR | EXCEL Intern
June 2020 – Aug 2020 | Detroit, MI

- Will be working in the CCMS Group

BERKELEY FHL VIVE CENTER FOR ENHANCED REALITY | Undergraduate Researcher
Sep 2018 – Present | Berkeley, CA

- Lead in user experience study of Affordance Analysis of Virtual and Augmented Reality Mediated Communication.
- ATLAS Annotation Tool project lead, a software for point cloud annotation and providing semantic meaning. Resulting data can be later used for a wide variety of purposes such as machine learning, architectural planning, etc.
- Lead instructor in the Robot Autonomous Driving DeCal, based on the Berkeley ROAR Competition.
- Lead developer in integrating ROAR and Carla Simulator platform

LAWRENCE BERKELEY NATIONAL LABORATORY | Intern
Sep 2018 – Present | Berkeley, CA

- Implementing and consuming OPTiMaDe API in Python, compliant with the JSON API 1.0 spec, enabling Interoperability among databases. Designed query parsing pipline and custom parsing syntax.
- Design and implemented flexible and dynamically extensible endpoint and endpoint cluster manager with value validation.
- Design and implemented easily customizable drone that scan local file system and sync with database.

OSAKA UNIVERSITY FRONTIER LAB | Student Researcher
June 2019 – Aug 2019 | Osaka, Japan

- Mono-camera depth sensing with object tracking. Built a DIY stereo camera and cross compared results against mono-camera result. Applied result on Laparoscopic Bipolar Forceps Positioning in Stereo Video for Robotic Surgery Training. Paper and code available upon request

OPTI-WIFI | Intern
June 2018 – Aug 2018 | Dublin, Ireland

- Real-time WLAN data visualization, including WLAN Channel availability, bandwidth, access point location, and etc.
- Automated database update procedure and increased database query efficiency by 25% using PHP and Python

PROJECTS

KIKAROO | Team Lead
Jan 28, 2018

- Prototyped capacitance touch pad to detect anomaly impact and created visualization and user interaction with Android Studio. Project placed first in the ISPE Hackathon

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY | B.A. in Computer Science
Expected May 2021 | Berkeley, CA • Cum. GPA: 3.41

Classes: Data Structure • Discrete Math and Probability • Algorithm • Foundation of Data Science • Web Data Visualization • Computing in Astronomy • Computer Architecture • Design Information Devices and Systems I & II • Intro to Database • Intro to AI • Concepts of Probability • Machine Learning • Internet Protocol • Computer Security (In Progress) • Techniques of Data Sciences

OTHER

PROGRAMMING/TOOLS
Python • Java • JavaScript • HTML/CSS • MySQL • PHP • C++ • Bash • Android Studio • Unity • Git and eager to learn more

LINKS
- https://wuxiaohua1011.github.io/
- LinkedIn: michael-wu-50417610a
- Github: wuxiaohua1011
- Facebook: wu.michael.1420