

DHRITI WASAN

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GitHub: github.com/dhritiwasan14

EDUCATION

Singapore University of Technology and Design

MAY 2016 TO PRESENT

- Bachelors of Engineering (Information System Technology and Design)
- Graduation: Sep 2019
- Current GPA: 4.14/5.00, Magna Cum Laude

University of California, Berkeley

JUN 2017 TO AUG 2017

- Participated in the Berkeley Summer Sessions along with a select group of students.
- Represented the university on the trip to network with students across the globe.
- Studied Computer Science courses: CS61A – Structure and Interpretation of Computer Programs, CS61BL – Data Structures and Programming Methodology.

WORK EXPERIENCE

iTrust Cyber Security Facility, Research Intern

SEP 2017 TO PRESENT

- Conducting research on IoT fuzzing by detecting anomalies in a device's response to find security vulnerabilities
- Used statistical classification and machine learning to map the anomalies to CVEs present.

Singapore University of Technology and Design, Teaching Assistant

JAN 2018 TO PRESENT

- Assisting with design of lesson plans for Python programming introductory course: 10.005 Digital World
- Facilitating coursework delivery during lectures and laboratory work
- Conducting consultation hours for students.

ACADEMIC RESEARCH PROJECTS

Bit-fighter

SEP 2017 TO DEC 2017

- Built a multiplayer, Math-based Arcade Game using concepts of Computation Structures in collaboration with 3 students
- Programmed the game using Mojo IDE platform and Lucid Hardware Description Language.

Recycling System

SEP 2017 TO DEC 2017

- Collaborated on an IoT project with 5 other students to build a technological system for the modern form of rag-bone pickers in Singapore, called the KarangGuni
- Created an Android Application with an online relational database
- Integrated PayPal, Firebase and other APIs to facilitate transactions from the users and the KarangGuni.

CO-CURRICULAR ACTIVITIES

SingTel IoT Competition

DEC 2016 TO FEB 2017

- Built an IoT centered system that monitored the cleanliness of toilets and availability of meeting rooms in the hostel
- Created a Ruby on Rails application for the users to access information collected
- Added security measures for the communication between application and Raspberry Pi.

Open House Workshop, 3DC

MAR 2017

- Organized an Open House workshop for 25 students as a part of 3DC (student club)
- Set up a server on a NodeMCU to remotely control LED lights
- Created a code base for the students to work on.

IEEE Arduino Workshops

NOV 2016

- Conducted a workshop to teach freshmen basic programming with the use of Arduino UNO
- Cultivated a strong understanding of hardware actuators and sensors.

ADDITIONAL SKILLS

- Programming Languages (with formal education): Python, Java, Scheme, JavaScript, Lucid, SQL
- Other Technical Skills include: Ruby on Rails, NodeJS, Android, HTML5, CSS3, GitHub.
- Security: Wireshark, nmap, Burp Suite.
- Enjoys painting, reading and sports.