

TERESA LIU

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EXPERIENCE

FACEBOOK | Software Engineering Intern

May 2017 - Present | Menlo Park, CA

- Engineering software for the Terragraph Network Management System (NMS) under the Connectivity Lab of internet.org
- Building frontend using React.js and backend with Express.js and C++ to create and display statistics of nodes and links within the system in order to manage and oversee the health of a topology's network

USC VITERBI COURSE PRODUCER | CSCI 103: Introduction to Programming

Aug 2017 - Present | Los Angeles, CA

- Enhancing student learning as an undergraduate teaching assistant for USC's introductory computer science course by hosting office hours, assisting labs, and grading coursework

HORIZONS SCHOOL OF TECHNOLOGY | Fellow

May 2017 - Aug 2017 | San Francisco, CA

- Chosen as a fellow from over 2000+ applications, see projects Doorstep and Nodebook

USC REALIZATION OF ROBOTIC SYSTEMS LAB | Research Assistant

Jan 2017 - May 2017 | Los Angeles, CA

- Developed on the Microsoft HoloLens in C# using Unity to create an augmented reality experience meant to guide and train assembly-line workers
- Utilized Vuforia Image Processing to track QR codes on objects for hologram placement

PROJECTS (View code on Github)

DOORSTEP: A PLATFORM FOR FREE MARKETPLACES | July 2017 - Present

- Created a web app meant to reduce waste by building community-based marketplaces where people post items they no longer need and wish to give away
- Implemented the backend using an Express.js server and MongoDB, then developed the frontend using React.js and managed asynchronous HTTP requests using Redux thunks

NODEBOOK: A CODER'S COLLABORATIVE TEXT EDITOR | July 2017

- Programmed our Electron desktop app's frontend using React.js and Draft.js to create editor layouts and designed the application's interface using LESS
- Developed collaborative features using web sockets that display live information when others are editing the text, including highlighting and cursor tracking

HOTDOG: SAVING PETS FROM OVERHEATED CARS | TreeHacks, Feb 2017

Winner of Best Use of IBM Watson IoT Platform on Bluemix

- Led the utilization of Node-RED to manage back-end development, communicating with a Raspberry Pi to collect car temperature data and alerting car owners and 911 of dangerous conditions using Twilio's API if children and/or pets' lives were in danger from the heat

HACKTUBE: A HATE-FREE YOUTUBE EXPERIENCE | SBHacks, Jan 2017

2nd Place Overall and Winner of MLH #HackHarassment Challenge

- Developed the frontend using HTML/CSS and javascript for our chrome extension meant to remove racist, homophobic, and sexist comments found on YouTube videos

SUCCINCT: PRESENTATION SLIDES IN SECONDS | HackUCI, Jan 2017

Winner of Organizer's Choice Award

- Handled the utilization of Google's Natural Language Processing API to extract and highlight keywords into bullet points

EDUCATION

UNIVERSITY OF SOUTHERN CALIFORNIA

Expected May 2020 | Los Angeles, CA

Major: B.S. Computer Science

GPA: 3.82 / 4.0 | **Awards:** Dean's Scholar, Dean's List

CENTRAL BUCKS HIGH SCHOOL EAST

Jun 2016 | Doylestown, PA

GPA: 4.4 / 4.0 | **SAT:** 2370 / 2400

Honors: Summa Cum Laude | Scholar's Diploma

Involvement: Drum major, symphonic and jazz band

SKILLS

Languages: C++, C, Java, HTML/CSS, JavaScript, Python

Development: React.js, Redux, Express.js, Node.js, MongoDB, MySQL, LESS/SCSS, AJAX, jQuery, Django, Arduino

Design/UIUX: Adobe Illustrator, Photoshop, Lightroom Sketch, Figma

ORGANIZATIONS

CODE THE CHANGE | Engineer

Dec 2016 - Present

- Develops applications for Los Angeles non-profits
- Working on a Django and React.js project for Green Dot Public Schools as a full-stack developer on a platform for students to stay connected with their schools after graduation to reduce drop-out rates

ASSOCIATION FOR COMPUTING

MACHINERY @ USC | Operations Chair

Dec 2016 - Present

- Manages general membership of over 1000+ computer science students and collaborates with 14 fellow officers
- Oversees operations committee which coordinates 50+ yearly events, fosters the mentorship program, and hosts community-building activities

SPARK SC | President

Jan 2017 - Present

- Leads 50 member organization with the mission of inspiring a culture of innovation and entrepreneurship in USC's community
- Works with 4 others on Core Team to handle recruitment, advise members, build a tight-knit community and culture, and handle other logistics
- Ensures the success of the internal committees, including Startup Career Fair, 1000 Pitches, Hackers, TechLA Fellows, and others
- Read more here: <http://sparksc.org/>