TERESA LIU

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EXPERIENCE

Facebook | Software Engineering Intern
May 2018 - Present | Menlo Park, CA
- Engineering software for the Terragraph Network Management System (NMS) under Facebook's Connectivity Lab
- Building dashboards feature of NMS using React.js to display network statistics for operators to understand the health of their topology, programming micro-controller backend in C++ and devising algorithms to provide more insightful network statistics

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

USC Realization of Robotic Systems | 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)

GreenDot Alumni: Code The Change | Sept 2017 - May 2018
- Worked with the non-profit Green Dot Public Schools on a platform for students to stay connected with their schools after graduation to reduce college drop-out rates
- Main backend developer, using Django and PostgreSQL to develop Rest API and admin panel for our mobile application to manage Alumni accounts and data
- Assisted frontend development using React Native to code login/signup screens

Doorstep: A Platform for Free Marketplaces | July 2017 - Aug 2017
- 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

Hotdog: Saving Pets' Lives 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
- Alerted car owners and 911 of dangerous conditions using Twilio's API if children and/or pets' lives were in danger from overheating cars

HackTube: A Hate-free Online 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, Academic Achievement Award

Central Bucks High School East
Jun 2016 | Doylestown, PA
GPA : 4.4 / 4.0
Honors: Summa Cum Laude | Scholar's Diploma
Involvement: Drum major, symphonic and jazz band

SKILLS

Languages: C++, Java, Python, Javascript, HTML/CSS
Development: React.js, Redux, Express.js, Node.js, MongoDB, MySQL, LESS/SCSS, AJAX, jQuery, Django, PostgreSQL, ES6, Git, Jekyll
Design/UIUX: Adobe Illustrator, Lightroom, Sketch

ORGANIZATIONS

Code the Change | Engineer
Sept 2017 - Present
- Develops production-level applications for Los Angeles non-profits in teams of engineers, designers, and product managers, see project "GreenDot Alumni"

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 activites

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
- Collaborates with 4 others on Core Team to spearhead recruitment, advise members, and build a tight-knit community and organizational culture
- Ensures the success of the internal committees, including Startup Career Fair, 1000 Pitches, Hackers, and TechLA Fellows
- Read more here: http://sparksc.org/