tiffany tso

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❯ employment

Salesforce   San Francisco, CA
Software Engineering Intern in Service Cloud's ESW (Embedded Service for Web) Team   May 2016 to Aug 2016
- Implemented browser notifications for an embedded responsive and scalable customer service chat widget within Salesforce Service Cloud
- Developed a corresponding test plan, which involved designing a comprehensive test suite with Selenium WebDriver and writing numerous UI automation tests and JS unit tests for full project test coverage
- Fixed various front-end functionality and fit & finish UI/UX bugs in preparation for product releases
- Dedicated 15 hours to volunteering assisting with pop-up villages for the homeless, beach cleanup, and habitat restoration at the Presidio

Texas Instruments   Sugar Land, TX
Software Engineering Intern in SDO-EMU (Software Development and Emulation) Team   Jun 2015 to Aug 2015
- Developed testing and logging applications to optimize data transfer of JTAG port in TI's software stack and products
- Configured ARM's open source CMSIS-DAP debug interface from outdated emulator firmware used in SDO-EMU
- Served as communications chair on the Intern Social Committee and raised $800 in donations for the Houston Food Bank
- Won Best MSP432 Design and Leadership Choice Award for the Wingman at the 2015 TI Intern Design Challenge

Formosa Plastics   Point Comfort, TX
Power Engineer Intern at Ethylene-Glycol Production Plant   Jun 2014 to Aug 2014
- Upgraded Yokogawa DCS to enhance graphic interface and PID usability for process operators in Olefins
- Designed and edited P&IDs and electrical diagrams in AutoCAD for the Formosa Engineering Center design team
- Shadowed power systems director in field work, unit supervision, and oversight of plant-wide power distribution

❯ projects and awards

TwitterMood: A Sentiment Analysis Engine | Winner at WiCS Hacks 2017
- Utilized Twitter API and IBM Watson's Tone Analyzer to determine how Twitter users feel about a search query in categories like anger, disgust, joy, and fear
- Used D3.js, SpinKit, Bootstrap Material Design, Flask, and Heroku to quickly design, build, and deploy the website as lead front-end developer
- Winner at 2017 Women in Computer Science Hacks, a 24-hour all women's hackathon, at the University of Texas at Austin

Automated Threading Insert Inspection System | Third Place Honors - UT ECE Senior Design
- Designed and engineered an image processing system for detecting wear on threading inserts used by Texas Arai, a pipe manufacturer located in Baytown, Texas. The ATIIS is a crucial first step to Tenaris and its subsidiaries to automating their manufacturing process
- Increased efficiency and reduced tooling costs because operators no longer have to manually inspect the usability of each threading insert after every production cycle

The Wingman | Best MSP432 Design and Leadership Choice Award
- Developed a DIY solution for bike theft and cyclist safety that will alert update a cyclist with GPS coordinates via text message when their bike has been moved from its locked location. The device also contacts medical help and provides location data if a cyclist injures himself in an isolated location or on a busy highway.
- Created on TI's MSP432 using onboard peripherals, such as an accelerometer, GSM and GPS modules, and wearable LEDs on a biking shirt
- Winner of Best MSP432 Design and Leadership Choice Award at the 2015 TI Intern DIY Design Challenge

Whiskr | Web App for Recipe Sharing for Foodies and Chefs
- Used Bootstrap as lead UI/UX designer and front-end developer to create a responsive mobile-first website for foodies and chefs to like, review, bookmark, improve, and share recipes and pictures of food
- Deployed website on Google App Engine and used Google Analytics to develop A/B testing on design variations for future patches
- Integrated AllRecipes API to populate site with existing recipes and Flickr API to allow users to upload their own recipes and pictures

Formosa Power Plant Systems | Trip Time Optimization Application
- Designed program in Visual Basic that graphs the trip time of relays, fuses, and circuit breakers with changing power variables
- Integrated detailed data sheets from various manufacturers categorized by types of circuit protection into company database
- Utilized program-generated visuals in corporate meetings for upgrading to digital relays in multiple plant units on the power grid

Embedded Systems Design Project | Handheld Game of Connect Four
- Designed and built custom circuitry for a handheld gaming device using the TI TM4C123 Launchpad
- Proposed algorithm and C code responsible for graphics initialization and turn-based game of Connect Four

Robot Car Design Lab Competition | First Place - UT ECE EE302
- Assembled mechanical parts with sensors and QA testing for a robot car with a team of four engineers
- Designed circuitry using multiple National Instruments MyDAQs to enable robot car to recognize and avoid obstacles on a track

❯ education

The University of Texas at Austin
B.S. Electrical and Computer Engineering 2017
Technical Cores: Software Engineering and Design | Startup Essentials and Technology Marketing
Minor in Advertising in the Moody College of Communications

❯ skills

SOFTWARE ENGINEERING	WEB DEVELOPMENT	ELECTRICAL ENGINEERING
C/C++	HTML/CSS	Verilog + VHDL
Java	JavaScript	MATLAB
Zsh + Bash	Bootstrap	LabVIEW
Visual Basic	jQuery	Assembly
Git + Subversion	AJAX	AutoCAD
Debugging	Sketch + Balsamiq	PCB Design
QE/Testing	Jekyll + Flask	Microcontrollers
Agile + Scrum	Heroku + Google App Engine	DCS Systems
Technical Demos		Operating Systems

❯ activities

TI Sugar Land Intern Social Committee · *Communications Chair*	Jun 2015 to Aug 2015
UT TASA (Taiwanese American Students Association) · *Philanthropy Director / Athletics Junior Officer*	Aug 2014 to May 2015
UT 2016 Engineering Class Council · *Webmaster / EE Representative*	Aug 2012 to Mar 2014
UT WECE (Women in Electrical and Computer Engineering)	Aug 2012 to Current
UT IEEE Robotics and Automation Society	Aug 2012 to Current
UT MAD (Mobile App Development)	Aug 2015 to Current

❯ volunteering

UT Taiwanese American Students Association · *Philanthropy Director*	Aug 2015 to May 2016

Coordinated with event staff and UT TASA members to volunteer at the annual Dogtoberfest celebration to support Austin animal centers, rescue shelters, and local pet businesses. Organized animal-friendly service events, such as shelter dog-walking at Austin Pets Alive! and on campus stress-relief petting zoos.