Nathan Tsai

Software Engineer | Hackathon Enthusiast

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EDUCATION

University of California, Los Angeles | Computer Science
EXPECTED GRAD: JUNE 2019   GPA: **3.8**

EXPERIENCE

Software Engineering Intern | Qualtrics
JUNE 2018 – SEPTEMBER 2018

‣ Develop Angular feature for preconfiguring a template of data visualization widgets
‣ Technologies: Angular, Node, JavaScript, Lodash, Jasmine, Mocha, Chai, JIRA, Git

Software Engineering Intern | Novacoast
APRIL 2017 – JUNE 2018

‣ Build a secure RESTful API and intuitive UX to store, manage, and query contracts
‣ Technologies: Golang, Python, JavaScript, MongoDB, Box, DocuSign, Docker, Git

Mobile Developer | UCLA Library
JANUARY 2017 – DECEMBER 2017

‣ Design the official UCLA Library app that provides users with real-time catalog data
‣ Technologies: Swift 3, Alamofire, Google Maps SDK, Google Analytics, CocoaPods

Web Developer | Daily Bruin
JANUARY 2017 – JUNE 2017

‣ Transform research, data, and journalism into informative, user-friendly web pages
‣ Technologies: JavaScript, jQuery, Bootstrap, Mapbox, Handlebars.js, HTML, CSS

PROJECTS

Pocket Change | Personal Finance App [iOS]
https://github.com/nwtsai/PocketChange

‣ Constructed an iOS app with Swift 3 that allows a user to view, analyze, and manage their personal budgets by illustrating how much, when, where, and why money was spent
‣ Designed animated pie charts and bar graphs that plot transaction data for each budget over various time intervals, beautifully visualizing a user's spending history over time
‣ Utilized regular expressions for data validation by dynamically enabling or disabling buttons and limiting text field inputs to ensure data integrity, validity, and legitimacy

MarkItPlace | E-Commerce Platform [Web]
https://github.com/nwtsai/MarkItPlace

‣ Created a full-stack web application with JavaScript, providing an online platform for users to buy, sell, and search for items by interacting with geo-markers on a real-time map
‣ Devised filtering algorithms that allow users to find items by key word, category, price range, and location, displaying only the markers on the map that match the search criteria

DataQuake | Live Earthquake Data [Web]
https://github.com/nwtsai/DataQuake

‣ Designed a web application with JavaScript that maps the location and size of earthquakes around the world, rendering circles with radii that correspond to their respective magnitudes
‣ Implemented a search bar that parses through the real-time earthquake data, plotting only the earthquakes at the specified location, magnitude range, or time frame on a resizable map

SKILLS

Programming Languages
C++, JavaScript, Golang, Python, Java, Swift, C, Bash, Verilog

Relevant Coursework
Algorithms and Complexity [CS 180]
Machine Learning [CS M146]
Operating System Principles [CS 111]
Computer Networks [CS M117]
Design of Digital Systems [CS M51A]
Software Engineering [CS 130]

Platforms
Docker, Github, Gitlab, Box, DocuSign, Salesforce, Solidworks

Libraries | Frameworks
Angular, React, Node, jQuery, Lodash, WebGL, Handlebars, Bootstrap, Materialize

Markup Languages
XML, HTML

IDEs
Sublime, XCode, Android Studio, Microsoft Visual Studio, Eclipse

Languages
English [native], Mandarin [fluent]

AWARDS

Dean's Honor List
Scholastic distinction granted to UCLA engineering students who obtain a GPA of **3.7** or above
- Winter 2017
- Spring 2017
- Fall 2017
- Winter 2018
- Spring 2018

AP Scholar with Honor
Granted to students who receive an average score of at least **3.25** on all AP exams taken, and scores of **3** or higher on four or more of these exams

Community Service Award
Awarded to students who have given at least **300** hours back to the community through volunteer work