

# Christopher Zhu

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Citizenship: **US Citizen**

## EDUCATION

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**University of California, Los Angeles (UCLA)**

Los Angeles, CA

BS Computer Science *GPA: 3.0/4.0*

Sep 2014 – Jun 2018

## SKILLS

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**Programming Languages - Proficient:** Java C/C++, Python, HTML/CSS3, Javascript, MySQL

**Prior Experience:** React.js, Ruby, Lisp, PHP, OCaml, Typescript, Prolog, Scheme, MongoDB

**Tools/Systems:** Angular2, Node.js, Git, WebGL, Amazon Web Services, Ruby on Rails, Express

## EXPERIENCE

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**Veritas Technologies**

Mountain View, CA

*Software Engineer Intern*

Jun 2017 - Sep 2017

- Developed a native document viewer website for clients to use as an alternative to legacy technology to satisfy GDPR requirements using Angular 2, Typescript, and Veritas SDK.
- Added functionalities for clients to directly manipulate files using Oracle's OIT API
- Created further functionality to OIT API which was not originally supported through modification of source code.
- Incorporated RESTful API built with Java and deployed with Apache Tomcat.
- Interacted with Oracles developing team to address bugs and concerns found with their API.
- Served as a system engineer to ensure that the stakeholders needs are satisfied in a high quality, trustworthy, cost efficient, and schedule compliant manner throughout the life cycle.
- Created a multitude of function buttons using CSS and OIT API to allow editing of documents on the web application.

- Interacted with JSON objects by transforming files into JSON objects then serializing the modified product to be given to the user.
- Implemented an automated workflow to update client products for distributed systems using Java as the back end.
- Allowed users to specify specific patch files to incorporate into the workflow without modifying the entire directory.
- Established logging capabilities to view changes made to directories and included timestamps using Log4j.
- Provided backups for each patch to allow users the ability to reverse a mistake in patching.
- Created an interactive user interface using Swing and incorporating JNLP API to browse directories.
- Performed a speech on our product in front of project managers from offices around the world and received high praise for potential viability in future products.

## **Veritas Technologies**

Mountain View, CA

*Software Developer Intern*

Jun 2016 - Sep 2016

- Developed a content detection and analysis tool to make the legacy product less dependent on third party applications using Java.
- Extracted metadata and allowed for native viewing using Swing and Tika API.
- Incorporated search engine capabilities for clients to distinguish between files of interest using Lucene API and SQL databases.
- Integrated automated workflow which guarantees clients the consistency of their documents located in the cloud using MySQL.
- Worked on full stack development by modifying Tika API to obtain the information from specific file types as specified by clients.
- Ensured program handled edge cases gracefully and used Log4j logging to show any issues.
- Created functionality to handle all ranges of file types including text as well as audio files.
- Tested viability of the product using incremental JUnit testing on different size of input as well as handling corrupt files.

## **PROJECTS**

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### **Infinite Rooms**

Feb 2017 – Mar 2017

- Developed a first-person horror game using ES6 Javascript.

- Provided functionality for user interaction using WebGL API.
- Designed a health system which depletes the user's "sanity" as time passes using HTML/CSS and Javascript.
- Designed each room environment with objects and graphics using JSON parsing and WebGL API
- Provided external controller input using Navigator Web APIs.
- Created user picking of objects using a color buffer which allowed users to interact with the environment around them.

## **Stock Sense**

Sep 2016 – Dec 2016

- Created a stock collection website where users can learn more about their favorite stocks in one designated area instead of having to navigate to different websites.
- Used Ruby on Rails to create users with the ability to comment and rate stock webpages.
- Utilized Yahoo Finance API to obtain stock quotes and used CSS to display this information in a format that allowed for easy viewing.
- Leveraged Google Trends API to show users the latest trends on the stock through data visualization.
- Incorporated StockTwits API to provided users the ability to share ideas between investors, traders, and entrepreneurs about particular stocks.
- Performed horizontal and vertical scaling load tests to determine the scalability of the website using Amazon Web Services.

## **LEADERSHIP**

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### **League of Legends - Club President**

Sep 2017 - Present

- Obtain sponsorships from companies as well as UCLA to host events for 60 members including Dignitas, FlyQuest, Super League Gaming, Riot Games, and Echo Fox.
- Developing a web application using React.js and Express to help members find friends and develop teams through using Riot Games' API and MongoDB.

### **Super Smash Bros Melee - Club President**

Sep 2016 - Present

- Worked with companies and other college clubs' administration to host tournaments with prizeing as well as organization such as CSL and Cal Poly SLO, UCI, UCSD, and UCSB.
- Creating a ELO system for members by recording their results in a web application to incentive members to be more proactive using React.js, Express, and MongoDB.