Christopher Zhu

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EDUCATION

University of California, Los Angeles (UCLA) Los Angeles, CA
BS Computer Science *GPA: 3.0* Sep 2014 – Jun 2018

EXPERIENCE

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 GDRP 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 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 2017

- 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 filetypes 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.

SKILLS

Programming Languages – Proficient: Java C/C++, Python, HTML/CSS3, Javascript, MySQL,
Prior Experience: React.js, Ruby, Lisp, PHP, OCaml, Typescript, Prolog, Scheme
Tools and Systems: Angular2, Node.js, Git, WebGL, Amazon Web Services, Ruby on Rails, Maven

PROJECTS

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.