Clay Jacobs

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Education

California Polytechnic State University - San Luis Obispo, CA

Bachelor of Science in **Computer Science**, March 2018

GPA: 3.2   Dean's List: 4 quarters

Experience

Veritas – Mountain View, CA   Summer 2017

Veritas is a leading provider of data storage, backup appliances, and cloud solutions for business customers. I worked on a team that develops Appliance Management Servers (AMS), a management platform for data center managers.

Software Engineering Intern

- Upgraded and streamlined AMS configuration process by self registering new servers.
- Added events functionality including new search capabilities through a rest API and a random event generator for testing. Used Golang, MongoDB, and JSON.
- Demoed my code to the appliance management team.

PCKit – San Luis Obispo, CA (custom-built gaming PC startup, www.pckitcj.com)   September 2016

- Implemented an ecommerce store including order management, user accounts and Paypal API.
- Created website on AWS using a tomcat web server, Java & MySQL backend and an HTML frontend UI.
- Secured with https, data encryption, JWTs, CSRF tokens, and XSS detection.

Intacct Corporation – San Jose, CA (VC-backed cloud accounting leader, acquired by Sage in 2017)

Release Engineering Intern   Summer 2016

- Recommended 3rd party tools for a new machine learning system that recommends tests for new releases.
- Merged svn log data, release email data, and ticket data together for use in the final machine learning project. Wrote script to parse svn log output into csv format.
- Assessed database migration tools for automating Intacct's migration process.

Release Engineering Intern   Summer 2015

- Learned how modern cloud applications use continuous integration to run an agile programming environment while maintaining a secure, robust instance.
- Tested, fixed and installed plugins and unix scripts in Jenkins, an open-source continuous integration server. Wrote a Jenkins plugin to generate release notes by querying an internal ticketing system.
- Implemented job visualization software and 3D svn visualization video recording tool for tv display at Intacct's offices.

Bill.com – Palo Alto, CA

Summer Operations Intern   Summer 2013

- Verified payments according to federal banking requirements.
- Cleansed customer records by eliminating duplicates and inactive accounts.

Genius.com

Summer Intern   Summer 2012

- Created a tool to update and monitor MySQL customer tables, allowing users to limit results and view specific ranges.
- Learned PHP, JavaScript, MySQL, CSS, HTML, and JQuery to complete the project.

Other CS Projects and Languages Available on request.

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Addendum

Other CS Projects

PubWC (Senior project: crowdsourced public bathroom geolocator & review app for iOS)   Current
- Created REST backend API for a central MySQL database called by the app itself.
- Released on the app store, and plan ongoing updates to make improvements and to incorporate user feedback

LZW Project – CPE 357 Systems Programming   Winter 2014
- Wrote a C program to perform the LZW decompression algorithm.
- Created unix shell scripts to perform regression testing and to debug the project.

Music Albums Quiz (my own iPhone App released on the App Store)   2013
- Planned, developed, and released an iOS application.

Languages and Relevant Coursework

Java, C, Objective-C, Golang, XML, HTML, CSS, jQuery, JavaScript, PHP, MySQL, sqlite, MongoDB, Hadoop.

Courses: Discrete Structures, Fundamentals of Computer Science I, II, and III, Computer Architecture, Systems Programming, Algorithms, Operating Systems, Software Engineering, Distributed Computing, Programming Languages, Data Science, Knowledge Discovery from Data, Databases, Network & Web security, Networks, Technical Writing, Statistics, Calculus