

David Brown

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| www.DavidsArcade.com

Objective

An entry level job in Computer Science, where I can use my creative problem-solving skills.

Education

CALIFORNIA STATE UNIVERSITY, FULLERTON | SEPTEMBER 2014 – MAY 2018

- Major: Computer Science
- Graduated Summa Cum Laude May 2018
- Grade Point Average: 3.91
- Related coursework:
 - Algorithms
 - File Structure and Databases
 - Mobile Device Application Programming (iOS)
 - Software Engineering
 - Web Front End Engineering for Internet Applications
 - Web Back End Engineering for Enterprise Applications
 - Python Programming
 - Computer Communications
 - Artificial Intelligence
 - Assembly Language
 - Compilers and Languages
 - Principles of Computer Graphics
 - Computer System Architecture
 - Operating Systems Concepts
 - Introduction to Game Design
 - Statistics and Linear Algebra

YORBA LINDA HIGH SCHOOL | JUNE 2014

- Recipient of award for outstanding student in Computer Science.
- Grade Point Average: 4.18 (3.91 unweighted)
- Related coursework: AP Computer Science A, AP Calculus BC (scored 5 on both AP tests)
- Co-taught computer game programming classes for the Orange County Asperger's Support Group.

Sample Software Projects (outside of class projects)

BISECTOR SOLVER (2016)

- Used to calculate the root of a nonlinear equation.
- Paired with experienced programmer.
- Developed using Test Driven Development methodology.

GAUSSIAN ELIMINATION (2015)

- Solves sets of linear equations.
- Includes error handling for singular matrices.

CHEMICAL REACTION CALCULATOR (2015)

- Given the molecules in a chemical reaction, this program calculates the stoichiometric coefficients

THE WINDY TACO GAME (2012)

- A platform game where the user guides a character through 12 levels in a quest to stop a criminal. Consuming “windy tacos” gives the character added abilities to jump higher.
- Designed and programmed entire game including a “Platformer” base class that can be reused in other games.
- Created all graphics and composed all music.
- See DavidsArcade.com for a demo.

Experience

LANGUAGES AND TOOLS

- C#, Python, PowerShell, cURL, Swift C++, Java
- Microsoft Visual Studio, TFS
- Wonderware System Platform

INTERNSHIP OCTOBER 2018-Present: Aveva Software, Lake Forest, CA, *System Test Team*

- Participated in code reviews, bug logging, RPEs, Sprint Demo meetings, and other Agile processes.
- Automated the process of creating hundreds of user accounts to stress test AVEVA Insight.
 - Proposed and implemented a cURL-based design.
 - Retrieves emails from Gmail and uses the body to generate the web requests that create users.
- Developed PowerShell scripts to quickly setup Virtual Machines.
- Designed and implemented tools to download and archive test metric data from Azure.
 - Generates appropriate web requests in cURL.
 - Converts data from Json to .csv format.

INTERNSHIP JUNE-OCTOBER 2018: Aveva Software, *Cyber Security Team*

- Worked on software that scans Visual Studio projects for security vulnerabilities before release.
- Integrated scanner with BinSkim.
- Wrote tools that verify Visual Studio ruleset settings and build date.

INTERNSHIP MAY-AUGUST 2017: Schneider Electric, Lake Forest, CA, *Cyber Security Team*

- Worked on file scanning tool with experienced software engineer.
- Integrated scanner with BinScope.
- Created website to allow uploading and scanning directories.

References

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