David Ferguson

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Created using HTML and CSS in Brackets - https://github.com/deejai/Resume

Education

Seminole State College
Associate's Degree, Physics Prereqs
Received December 2011

University of Central Florida
Bachelor's Degree in Computer Science
Graduate December 2016
- 3.5 GPA

Skills

C, C++, Java, C#
.NET, Visual Basic, Excel
HTML, CSS, Javascript

Certifications

R Programming (Coursera Verified Certificate)
https://www.coursera.org/account/accomplishments/certificate/MXD7NFTW87

Employment

Contracted Tutoring
Mathematics and Programming Tutor
December 2014 - Present
- Math: Up to Calculus, Diff Eq, and Discrete
- Programming: Mostly C, C++, and Java

Convergys
Apple Tier 2 Account Security Advisor
May 2014 - September 2014
- Trained tier 1 advisors

Digital Risk
Data Capture Analyst
June 2013 - November 2013
- Created efficiency applications using Visual Basic

Projects

2D Tile Game Map Editor
Java

Tile exploration game demonstration. Supports custom tiles with unique behaviors. Map creator reads in color coded .png image to generate custom maps quickly.

https://github.com/deejai/Java---Tile-Game

GML Conversation Mapper
Visual C#

Generate, organize, load, and save video game dialogue trees for use in the GML scripting language. Output completed trees as formatted code to use in projects.

https://github.com/deejai/Csh---GML-Conversation-Mapper

Hospital Ranker
R

Creates a custom data table from a folder of CSV files of hospital data. User chooses one of 3 different causes of death and whether to filter the results by state and/or ranking.

https://github.com/deejai/R---Analyze-Hospital-Data

Sort Demonstrator
C

Given an array of values, show the step-by-step sort process of the array for Bubble Sort, Merge Sort, Quick Sort, Insertion Sort, and Selection Sort. Each sort is labeled with its name and average time complexity.

https://github.com/deejai/C---Sort-Demonstrator

Course Work

MIPS Processor Implementation
Computer Logic and Organization (C)

Process input to feed commands through MIPS multiplexers into its ALU, memory, and registers.

AES Encryptor
Security in Computing (Java)

Generate an AES encrypted message given a plaintext file, a 16-bit encryption key, and an initialization vector.