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 2017

- 3.0 GPA

Skills

C, C++, C#, Java, Python

.NET, Visual Basic, Excel

HTML, CSS, Javascript

MS Visual Studio, Unity, CMake

Employment

Dignitas Technologies
Software Developer (Co-Op)

January 2016 - November 2016

- Modeling and Simulation
- C++, Python, OpenSceneGraph, Unity, RabbitMQ

Contracted Tutoring
Mathematics and Programming Tutor

December 2014 - December 2015

- Algebra, Trigonometry, Calculus, Diff Eq, Discrete
- C, C++, Python, 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

- Visual Basic, Excel

Projects

Synthetic Environment Messaging Queue
C++

Distributed system for receiving environment updates from a 3d physics simulation and relaying them to the appropriate terminals for processing.

https://github.com/deejai/dgts_SE_MQ

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

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.

Certifications

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