

Zane Jacobs

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Technical Skills

Languages

Java	HTML	Python
C/C++	CSS	SQL
C#	PHP	JavaScript

Technologies

Git	Alexa
Swing	WinGDI
AWS	Android

Experience

Virtulocity Networks (Startup) | Software Engineering Consultant | Nov 2017 - Present

Designed and implemented several unpublished solutions including an Android app and Linux server that handle file storage and transfer, and an Alexa skill and Alexa-enabled product. Made use of Amazon Web Services such as Lambda, EC2, and DynamoDB.

IHS Markit | Dallas, TX | Software Developer | Jan 2017 - Dec 2017

Enhanced and maintained Markit's flagship product, WSO (Wall Street Office). Worked in a team to fix UI issues, correct logic mistakes, upgrade and update components, add features, refactor code based on design principles and patterns, preserve database integrity, and boost performance. Improved the state of the application based on both client and internal reports. Developed everything from front-end to back-end to database scripts. Engaged in code-reviews with peers to find the best solutions. Maintained a framework of automated UI tests.

Personal Projects

Complex Function Animator

Rendered a complex function as an animation in which a set of points move from input to output position using linear or polar interpolation. C++, WinGDI.

Fractal Generator

Rendered the Mandelbrot set with a hard-coded colorset. Position and zoom could be manipulated at runtime. C++, WinGDI.

3D Chess

Two player chess, rendered in 3D with basic shading. Loaded Wavefront OBJ files for piece models. Java, Swing.

Relevant College-Level Courses Completed

Algorithms & Data Structures I & II
Principles of Software Engineering
Linear Algebra
Open Source Platforms
Application Development
Databases I & II

Object Oriented Programming
Leadership & Problem Solving
Information Modeling
Business & Information Systems
Networking
Calculus

College Algebra
Sets, Probability, and Number Systems
Survey of Robotics
C++ Programming I & II
Logic

References

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Mark Herrera

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