Zane Jacobs

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Technical Skills

Languages

			Technologies	
Java	HTML	Python	Git	Alexa
C/C++	CSS	SQL	Swing	WinGDI
C#	PHP	JavaScript	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Designed and implemented several unpublished solutions including an Android app and Linux server that handle file storage and transfer, and an Alexa skill and Alexa-enabled product.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	Object Oriented Programming	College Algebra
Principles of Software Engineering	Leadership & Problem Solving	Sets, Probability, and Number Systems
Linear Algebra	Information Modeling	
Open Source Platforms	Business & Information Systems	Survey of Robotics
Application Development	Networking	C++ Programming I & II
Databases I & II	Calculus	Logic

References

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DataStax
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