

# Zane Jacobs

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## Technical Knowledge and Skills

Tools	Languages	Frameworks & Libraries	Exposure to	Theory
Git	Java C#	ASP.NET MVC	Android	Object Oriented Design
Maven	C++ SQL	Windows GDI	Python	Software Design Principles
Gradle	JavaScript	Swing	Kotlin	Software Development Life Cycle
	HTML CSS	WPF	NoSQL	Design of Data Structures
			Agile	Design of Algorithms

## Experience

**IHS Markit** Dallas, TX

**Software Developer** Jan 2017 - Present

Enhance and maintain Markit's flagship product, WSO (Wall Street Office). Work with 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. Improve the state of the application based on both client and internal reports. Develop everything from front-end to back-end to database scripts. Engage in code-reviews with peers to seek best solutions. Create and maintain a framework of automated UI tests.

## Personal Projects

**Complex Function Animator** - Animates a hard-coded complex-valued function by displaying the transition from input to output. A set of inputs, represented as points on the screen, move from their initial position to their respective output position using either linear or polar interpolation. C++, WinGDI.

**Fractal Generator** - Renders the Mandelbrot set with hard-coded colorset. User could manipulate position and zoom level. C++, WinGDI.

**3D Chess** - The game of Chess with a 3D perspective view of the board and pieces. User could fly around in 3D space and click squares to move pieces. Loads Wavefront .OBJ files for piece models. Basic shading. Java, Swing.

## Relevant College-Level Courses Completed

Algorithms & Data Structures I & II	Object Oriented Programming and Design
Principles of Software Engineering	Leadership & Problem Solving
Application Development	Introduction to Information Modeling
Linear Algebra	Business & Information Systems Practices
Open Source Platforms Development	Introduction to Information Technology
Databases I & II	Introduction to Web Presentation and Development
Persistence Applications	Networking I
C++ Programming I & II	College Algebra
Logic	Sets, Probability, and Number Systems
Calculus	Survey of Robotics

## References

**Steve Halladay**

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