TRAVIS RINGSTAFF

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M.S. Computer Science, *The University of Tennessee at Chattanooga – In Progress*
B.S. Music Theory & Literature/Computer Science Minor, *Southern Adventist University, Graduated with Honors in 2006*

Specializes in: *Java, C#, JavaScript, HTML 5, CSS, Google Dart, Android, Bootstrap*
Experience with: *C++, PHP, SQL, Silverlight, Photoshop, big data*

Web Developer
2015-PRESENT

Pathway Press
Cleveland, TN

- Designed and built new websites for redbackhymnal.com and pathwaypress.org using HTML5, CSS, JavaScript, and Bootstrap for the responsive framework
- Designed marketing emails which were sent to a large list of subscribers
- Made numerous improvements and content updates to existing commerce site

Associate Software Engineer
2012-2015

Schweitzer Engineering Laboratories
Chattanooga, TN

- Developed applications for industry to provide SCADA visualization and control for electrical power networks
- Gained proficiency in designing complex, scalable applications in modern web languages, including Google Dart, JavaScript, jQuery, HTML, and CSS
- Helped make multiple improvements to existing C#/Silverlight diagramming software

Research & Development
2012-2013

National Science Foundation/The University of Tennessee at Chattanooga
Chattanooga, TN

- Performed research to classify smartphone sensor data for the purpose of human activity and posture detection
- Developed Java applications for Android and PC
- Worked with colleagues to collect, integrate, and transform data into useful information

Project Manager
2010-2013

ARS e-Commerce
Chattanooga, TN

- Entered and managed database content, delegated data work, and managed monthly billing reports
- Create, updated, and monitored product content for Sears and Kmart websites
- Obtained images, specifications and other necessary information from vendors

// Projects of Note

dinolab, LLC
Dinolab is a company I created to make imaginative, musical, and educational apps for kids. The first app, which is currently ready for release on Android, is a soothing musical experience for tired kids, called *Sleepy Stars*. The app opens to show a night sky filled with stars that twinkle in rhythm to soft lullaby music (5 songs with original arrangements). The user can interact by tapping a star in the center, which skips to the next song or by swiping across the sky, which produces a shooting star following in the same path as the swipe. The glowing stars and limited interaction involved allows the user to become *sleepy,* by creating a calming environment for bedtime (set for any age, but is geared for younger children).

Future projects for dinolab include an app that is both parts educational and an engaging game that lets the user be the orchestrator by toggling different musical parts, instruments and rhythm in an orchestra scene (set for ages 2+).

Redbackhymnal.com and *Pathwaypress.org*
Designed and developed new responsive websites for Pathway Press using HTML5, CSS, JavaScript, and Twitter Bootstrap. Also used many original photographs for both websites. Redbackhymnal.com has a unique tool that displays the hymn music the user is hearing. The music will automatically advance stanzas, allowing the user to sing or follow along unencumbered.

SEL Diagram Builder
Major work done to enhance user experience, including replacing the existing serialization mechanism, implementing asynchronous operations, and UI design. Also helped build a prototype of a new release of Diagram Builder to meet specific requirements.

SEL Web-based HMI
Helped develop the new version of the web-based HMI using HTML 5, CSS 3, and Dart. Was involved in all phases of the project's development through to release, including architecture design, development and unit testing. Also had a major role developing trends, gauges, and other controls.

// Work References

Ora Hart
Marketing Facilitator, Pathway Press, boss

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  Email: ohart@pathwaypress.org

Greg Lusk, PE
Development Manager, Schweitzer Engineering Laboratories, boss

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Prof. Yu Cao, Ph.D.
Professor at the University of Tennessee at Chattanooga, Research Director of the NSF Biomedical Informatics Research Program, teacher

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