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SOFTWARE ENGINEER   JONATHAN TROWBRIDGE

EDUCATION

B.S. COMPUTER SCIENCE | VIRGINIA COMMONWEALTH UNIVERISTY '13

QUALIFICATIONS

Languages:	C#, Java, TypeScript, JavaScript, T-SQL, PL/SQL, Perl, HTML5/CSS3
Frameworks/Libraries:	ASP.NET, Xamarin, AngularJS, React, Redux, Node.js, Mean.js, Express, Backbone, Marionette, Dojo, jQuery, Underscore, Knockout, Bootstrap, Handlebars
Databases:	Microsoft SQL Server, PostgreSQL, MongoDB
Source Control:	Git, Subversion
IDEs:	Visual Studio, Android Studio, Xcode, Rider, Eclipse, NetBeans
Platforms:	Android, iOS, Windows, Linux
Certifications:	Microsoft Xamarin Certified Developer

WORK HISTORY

SOFTWARE ENGINEER | MAPLETON HILL MEDIA | BOULDER, CO | AUG. '16 – FEB. '18

- Developed complex iOS and Android mobile applications using Microsoft Xamarin framework.
- Implemented multifaceted ASP.NET Web APIs to back mobile applications and synchronize data between devices.
- Worked as part of a small, four-person team, to develop the Aspen Snowmass cross-platform mobile application.
- Developed various types of applications, including, but not limited to: skiing, agriculture, inventory, and shipping.

APPLICATION DEVELOPER | WORLDVIEW SOLUTIONS | RICHMOND, VA | FEB. '13 – FEB. '16

- Migrated an existing .NET Web Forms application to a new Backbone/Marionette framework and ASP.NET Web API. The project was a watershed pollution management module for the Virginia Department of Environmental Quality's Total Maximum Daily Load program
- Worked as part of a team to develop a resource conservation management planning module for the Virginia Department of Conservation and Recreation's Best Management Practice tracking program
- Implemented a large portion of the complex claims-based permitting workflow utilized by the Virginia Department of Environmental Quality's Storm Water Construction General Permitting process
- Implemented claims-based authentication, a user management system, and account email workflow to an existing Air Force recruiting application using the ASP.NET Identity provider
- Worked as part of a team to develop a land and water resource planning software called PracticeKeeper
- Migrated a non-profit website used to promote exercise in K-12 students from jQuery to Dojo

JUNIOR DEVELOPER | GALLIUM TECHNOLOGIES | RICHMOND, VA | APR. '12 – FEB '13

- Developed, documented, and deployed features into an existing MVC web application
- Maintained and administered a PostgreSQL database
- Updated legacy components for compliance with current web standards

ADMINISTRATIVE ASSISTANT | MARFAIR JOINT VENTURE | D.C. | MAY '11 – AUG '11

- Invoiced tenants and helped with updating tenant records
- Property and account management

QUALITY ASSURANCE INTERN | PREMATICS INC. | VIENNA, VA | JUL. '08 – DEC. '08

- Developed unit tests using Perl and the Selenium browser automation framework
- Managed, updated, and added customized Python plugins for Trac bug tracking system

SIDE PROJECTS

BIT CAST | ANDROID | JUN. '17 – PRESENT

- An Android application that allows users to stream torrent video media to either Chromecast devices on the local network, or locally on the device.
- Runs an HTTP server that allows users to share a URL that allows devices on the same network to stream media from the device.
- Leverages Google's new Android Architecture Components (Room, ViewModel, and LiveData).
- Uses Dagger 2 as an IoC container for injecting dependencies.
- Implements analytics and crash reporting.
- Powered by the VLC libVLC library for converting and playing media.

REFERENCES

Jason Timbo – COO and Co-founder of Mapleton Hill Media
Website: https://www.mapletonhill.net
Email: jason@mapletonhillmedia.com

Paul Sabini – COO and Co-founder of Mapleton Hill Media
Website: https://www.mapletonhill.net
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Jamie Christensen - President and Founder of Worldview Solutions Inc.
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