

Matthew Morrone

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Skills

□ Languages	Javascript, C#, Node, PHP, Java, C, Python, Perl
□ Database	MySQL, Oracle, PL/SQL, SQL Server, MongoDB (NoSQL), PostgreSQL
□ Technologies	HTML5, CSS3, Razor, Canvas, SVG, XML, XPath, XSLT, DOM, AJAX, JSON
□ Libraries	jQuery, jQuery UI, jQuery Mobile, Underscore/Lodash, Coffeescript, Sweet (Mozilla)
□ Frameworks	Angular, Knockout, NHibernate, Oracle/JDBC, Backbone, CakePHP, Django (MVC)
□ Development	Git, Visual Studio, Sublime Text 2&3, SVN, XAMPP, MAMP, Eclipse, Aptana
□ General	Shell Scripting/Bash, Photoshop, Microsoft Office, Web Management/Hosting

Work Experience

Geodecisions, Camp Hill, PA

Software Engineer (TEKsystems Contractor), June 2014 - October 2014

- Work on the Enterprise GIS system (EGIS), web app that embeds maps into existing and new web applications.
- Create functionality for sharing map configurations among specified groups of users.
- Design database schema and implement with PL/SQL, implement ORM and MVC with NHibernate via Visual Studio.
- Use Razor, jQuery, Bootstrap, and other libraries to create a functional, intuitive user interface
- Extend REST API of application, upgrade existing functionality to update via AJAX.
- Implement Angular directives to add modular functionality to existing projects
- Design grunt tasks to aid in debug application's debugging process
- Use Git, Sourcetree, JIRA, Jenkins to work effectively alongside team members

The Affective Computing Company, Pittsburgh, PA

Software Engineer, Database Administrator, April 2012 – October 2013

- Build a content management system with CakePHP for use by company employees and customers.
- Plan out and implement schema in MySQL, test and optimize to ensure efficiency and data integrity.
- Construct email/text messaging system with PHP/Cron to send messages at specified times.
- Design a mobile version of the site for taking surveys with jQuery Mobile and Twitter Bootstrap.
- Create a dashboard to visualize relevant data in table and graph form using HTML5 canvas.
- Implement secure password hashing (SHA1, SHA3), access control list, login/session functionality.

Learning Research and Development Center, University of Pittsburgh

Undergraduate Research Position, Perfetti Lab, August 2011 – April 2013

- Design surveys and web applications with HTML, CSS, jQuery and PHP to the specification of graduate students. □ Design web application in PHP, MySQL and Javascript -- allows researchers to upload and download files in various formats (CSV, XML, SQL, etc.) into a MySQL database. Front-end GUI similar to a spreadsheet. Uses AJAX to automatically update server database. Implements data mining tools and graph visualization.
 - Conduct research that examines the neurophysiology of cross-language and bilingual language processing.
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Education

University of Pittsburgh – Pittsburgh, PA	Graduated April 2014
Bachelor of Science, Department of Computer Science	Bachelor of Arts, Department of Linguistics
Data Structures, Algorithm Implementation, Database Management, Applied Cryptography, Machine Learning	