2s473 Bancroft Ct.
Glen Ellyn, IL 60137

# JACOB M. DAVIDSON

(331) 575-7354
github.com/JacobMDavidson

## TECHNICAL EXPERIENCE

### Languages and Technologies
Java; C#.NET; SQL; JavaScript; PHP; XML
Eclipse; Visual Studio; Android Studio; Oracle Database 12c; MySQL; Jekyll; Joomla!; WordPress;

### Projects
- **Professional Engineering License Manager** (08/2012 - Present). Membership based web application that helps professional engineers track their professional engineering licenses. Joomla!, MySQL, PHP, HTML, CSS
- **Elavon Converge Payment Gateway for WooCommerce** (09/2012 – Present). Commercial WordPress plugin that adds the Converge payment gateway to WooCommerce (an eCommerce solution for WordPress). PHP
- **Surveying Coordinate Transformation** (08/2014). Transforms survey coordinates from one coordinate system to another using the least squares methodology. C#.NET
- **SMorSe for Android** (07/2014). Converts incoming text messages to Morse code based on the ITU- R M.1667-1 recommendation. The Morse code message is played or vibrated per the phone's settings. Java
- **Farkle** (12/2014). Developed as a team for the Software Engineering capstone course, this application is a desktop version of the popular dice game Farkle. Java

## EMPLOYMENT

### Freelance Web Developer                                    06/2012 – 06/2014
Provided freelance web development services to various clients.
- Migrated sites from wordpress.org to shared hosting allowing for deeper customization.
- Developed automated backup processes for existing web sites.
- Created templates for existing static web sites transitioning to a CMS (such as Joomla! or WordPress).
- Developed custom WordPress and Joomla! plugins.

### Structural Engineer                    Shive Hattery, Inc.                    02/2011 - 06/2012
Provided structural engineering design services and project management support for the industrial, educational, commercial, and telecom industries.

### Project Engineer                    Carl Walker, Inc.                    01/2005 – 03/2007 and 08/2007 – 01/2011
Provided comprehensive structural engineering design services and project management support for more than 30 unique parking structures.

## EDUCATION

### Springfield, IL                    University of Illinois at Springfield                    08/2013 – 12/2015
- M.S. in Computer Science, December 2015 (expected). Current GPA: 4.0
- Graduate Coursework: Computer Organization; Data Structures and Algorithms; Programming Languages; Intro to Operating Systems; C# .NET; Intro to Database Systems; Software Engineering Capstone; Web Services; Computer Viruses/Worms; Testing and Reliability; Network Programming.

### West Lafayette IN                    Purdue University                    08/2003 – 12/2004
- M.S. in Civil Engineering (Structural Emphasis), December 2005. GPA: 4.0

### Corvallis, OR                    Oregon State University                    09/1998 – 03/2003
- B.S. in Civil Engineering, March 2003. GPA: 3.89
- Graduated with Honors: Summa Cum Laude