Timothy Overly

143 Chaucer Ct.
Worthington, Ohio 43085
timothy@overly.me
513.225.1226

Experience:

SPIDAWeb LLC   **Gahanna, Ohio**
Software Development and Analysis Engineering   *August 2007 – Present*

Web Developer
- Designed and programmed multicomponent service-oriented web applications using various frameworks and design patterns.
- Wrapped external web services into common interfaces for modular designs.
- Diagnosed and tuned large datastores for sub-second response times.
- Installed and supported containerized deployments inside corporate and cloud environments.

Desktop Developer
- Involved in all aspects of the development of the company's primary desktop application, including design, development and testing.
- Wrote a finite element analysis package, that accounted for geometric non-linearities, catenary wires, pre-stressed components, and temperature affects to determine loading and stresses in utility pole structures.

Development Manager
- Managed the team responsible for the development, maintenance and support of the company's software products.
- Served as the primary technical contact for internal design processes and external customer interactions.
- Implemented continuous integration testing, code review, and feature development cycles to support a more robust development process.

Los Alamos National Laboratory   **Los Alamos, New Mexico**
Engineering Institute   *May 2006 – July 2007*

Graduate Research Assistant
- Designed, built, and tested small electronic devices for use in structural health monitoring applications.
- Programmed in MATLAB and C to control external hardware for data acquisition and analysis.
- Developed a sensor diagnostic algorithm for use with piezoelectric sensor/actuators and implemented it in software.

Los Alamos National Laboratory   **Los Alamos, New Mexico**
Dynamics Summer School   *June 2005 – August 2005*

Engineering Intern
- Worked as part of a multi-disciplinary team to implement an algorithm that used natural frequencies to detect damage in a structure.
- Correlated test results to a theoretical model for plant identification and controller implementation.

Robert Bosch GmbH   **Stuttgart, Germany**
Central Research and Development Center   *April 2001 – September 2001*

Praktikant
- Programmed a climate chamber measurement system using Visual Basic to improve data collection and decrease measurement time by eighty percent.
- Developed a test protocol and programmed measurement systems to qualify new magnetic anti-lock brake sensors.
- Designed and constructed fixtures for testing existing products within magnetic fields.

Computer Skills:

Languages	Frameworks	Databases	Build Tools
Bash	EmberJS	MySQL	Ant
C	Grails	MongoDB	Gradle
Groovy	NodeJS	Oracle	Grunt
JavaScript	ReactJS	PostgreSQL	Ivy
Java	Ruby on Rails	Redis	Maven
Ruby	Sinatra	SQL Server	Rake

Other Syntaxes	Testing Frameworks	CI Systems	Deployment Tools
CSS/SCSS	Jasmine	CircleCI	Docker
HTML	JUnit	CodeCov	Google Cloud
JSON	Mokito	Jenkis	Heroku
LaTeX	Spock	Travis CI	httpd
Markdown			Tomcat
XML			NGINX

Design Concepts	Operating Systems	Protocols	Version Control
Agile/Scrum	Linux	REST	Git
IoC	OS X	SOAP	Subversion
MVC	Windows	SSL	
SOA			

Education:

University of Cincinnati *Department of Mechanical, Industrial and Nuclear Engineering*
Masters of Science in Mechanical Engineering - 2007
- Structural Dynamics
- Advanced Vibrations
- Finite Element Techniques

University of Cincinnati *Department of Mechanical, Industrial and Nuclear Engineering*
Bachelor of Science in Mechanical Engineering - 2002
- International Engineering Certificate

Open Source:

- *Resume* (author) the code that was used to generate this document
- *Truck Circuit* (author) an arduino project with matching cicuit diagram for a halloween costume
- *SmartThings* (author) device handler to control a whole house fan
- *Dot Files* (author) series of scripts to make configuring a computer quick and consistent
- *SHM Tools* (contributor) a package of engineering tools used in structural health monitoring