

Timothy Overly

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Experience:

Empora Title

Engineering

Columbus, Ohio

Aug 2021 – Present

Director of Engineering

- Evolved a minimally viable product from launch to a reliably maintained and deployed application
- Made and implemented key decisions to migrate backend systems to increase developer productivity
- Directly developed features in partnership with Product Managers
- Implemented many core team processes including interviews, retros, code reviews, standups, and showcases.

Root Insurance

Engineering

Columbus, Ohio

July 2017 – Aug 2021

Senior Engineering Manager

- Maintained insight and ensured the progress of four engineering teams' deliverables.
- Coached directly and through other leaders the 25+ engineers in my organization.
- Implemented multiple processes that minimized redundant work, ensured critical issues were addressed, and balanced immediate and long-term needs.
- Set the technical direction and vetted overall architecture improvements of my functional group.

Engineering Lead

- Lead the team that implemented our in-house claims system and imported existing claims from an external vendor in a three-month window.
- Oversaw the work and reviewed the code of members of my team during the weekly sprint cycles.
- Triaged bugs and maintained systems during the weekly rotations.

Senior Software Developer

- Implemented features across the full stack, from the Rails backend systems through to the React client-side application.

SPIDAWeb LLC

Software Development and Analysis Engineering

Gahanna, Ohio

August 2007 – July 2017

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 effects to determine loading and stresses in utility pole structures.

Head of Software Development

- 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*Engineering Institute***Los Alamos, New Mexico***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.

TK Engineering*Analysis Engineering***Cincinnati, Ohio***August 2005 – April 2006*

Engineering Apprentice

- Constructed both two and three dimensional finite element models of aircraft engine parts for modeling heat transfer, stress, and life.
- Automated boundary condition application through the programming of macros in ANSYS.

Los Alamos National Laboratory*Dynamics Summer School***Los Alamos, New Mexico***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*Central Research and Development Center***Stuttgart, Germany***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.

Enable Medical*Product Engineering***Cincinnati, Ohio***June 1999 – August 2000*

Manufacturing, Research, and Development Co-op

- Designed and constructed prototype devices for use in treating heart disease that led to a device being taken to market.
- Performed primary testing and qualification before product release for both endoscopic and open surgery devices.

Computer Skills:

| Languages | Frameworks | Databases | Build Tools |
|-----------------|--------------------|------------|------------------|
| Bash | EmberJS | MySQL | Ant |
| C | Grails | MongoDB | Gradle |
| Groovy | NodeJS | Oracle | Grunt |
| JavaScript | React | PostgreSQL | Maven |
| Java | Ruby on Rails | Redis | Rake |
| Ruby | Spring | SQL Server | |
| | Vue.js | | |
| Other Syntaxes | Testing Frameworks | CI Systems | Deployment Tools |
| CSS/SCSS | Mokito | BuildKite | AWS |
| HTML | Jasmine | CircleCI | Docker |
| JSON | JUnit | Github | Google Cloud |
| LaTeX | RSpec | Jenkins | Heroku |
| Markdown | Spock | Travis CI | httpd |
| XML | | | NGINX |
| | | | Tomcat |
| Design Concepts | Operating Systems | Protocols | Version Control |
| Agile/Scrum | Linux | GraphQL | Git |
| IoC | OS X | REST | Subversion |
| MVC | Windows | SOAP | |
| SOA | | SSL | |

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 circuit 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