

# Tim-Doerzbacher.com

I've developed a skill set varied enough to take any web-based idea from initial concept, to design, and all the way through development to the finished implementation. I'm most comfortable with open source software.

## Contact Info

1 • 412 • 758 • 0179  
136 North South Drive  
Pittsburgh, Pennsylvania 15237  
tim@tim-doerzbacher.com

## What I Can Do

Here's an annotated list of software, languages, and so forth that I've used. The battery icons indicate my level of comfort with a particular item.

## Technologies

- Adobe Creative Suite
- Ansible
- Bootstrap
- CentOS
- DurandalJS
- ejabberd
- Git
- Grunt
- jQuery
- MediaWiki
- Nagios
- NodeJS
- PHPUnit
- Python
- Rasbian
- Selenium
- Symfony2
- Ubuntu
- Angular
- Apache
- CasperJS
- CodeIgniter
- Eclipse
- Facebook APIs
- Grep
- Jenkins
- Knockout
- MySQL/MariaDB
- NightwatchJS
- Phabricator
- PostgreSQL
- QUnit
- RequireJS
- Subversion
- Thrift
- WordPress

## Languages

- ActionScript
- C/C++
- Erlang
- JavaScript
- MXML
- PHP
- Yaml
- Bash
- CSS
- HTML
- LESS
- SQL
- Python

## Skills & Techniques

- Agile Development
- Graphic Design
- Linux Administration
- Website Design
- Database Design
- LAMP Environments
- /Regular Expressions/

## Operating Systems

- GNU/Linux
- Windows
- Mac OS X

## Where I've Worked

2017 — Present

### Opus One Interactive

Senior Engineer

- ▶ Added continuous integration to our builds and release process
  - ▶ Integrations are run using custom GitLab runners
  - ▶ Configured custom runners to run Selenium headless using Xvfb
  - ▶ NightwatchJS is used to drive the Selenium tests
- ▶ Leading the graduation migration from legacy PHP code to PSR compatible code using Composer libraries
  - ▶ Moving to PSR compatible code was done for better code analysis, coverage, and code completion for quicker development

2014 — 2016

### Intermedix

Front End Engineer / Release Engineer

- ▶ Redesigned and implemented new release engineering process.
  - ▶ Fully automated publishing of release assets.
  - ▶ Automated release emails by using ChangeLog.
  - ▶ Organized and developed a branching strategy for release and development.
  - ▶ Redesigned the Grunt project files into a modular structure and more easy to maintain structure.
  - ▶ Integrated Stash with Jenkins to enforce testing before merging.
  - ▶ Created automatic release process that is triggered by new commits or merges to the master branch.
  - ▶ Built and maintain Jenkins build slave.
  - ▶ Added additional linting rules and code to enforce consistency in the code.
- ▶ Oversaw development of new major release of our product.
  - ▶ The original architecture was of a large, monolithic package which was prone to regressions.
  - ▶ Chopped the package in many smaller, more focused packages to allow downstream implementers more flexibility with upgrading and feature sets.
- ▶ Designed and implemented visual regression tests to improve continuous integration.
  - ▶ The testing framework is shared, making any updates or the testing framework to be affected immediately in all existing and new modules
  - ▶ All demos in the documentation are automatically checked for visual regressions.
- ▶ Evaluating and integrating additional third party libraries in the shared toolkit.
  - ▶ Automated patching and tweaking (when necessary) so that all libraries can be used seamlessly with RequireJS.

2007 — 2015

### PiCon Web Design & Marketing

Subcontractor

- ▶ Developed a web-based commercial employment application designed for the trucking industry, yet generalized enough to be used by any industry.
- ▶ Rewrote .NET and Microsoft based websites for use on LAMP servers.
- ▶ Lead developer on a project to catalog and digitalize 300,000+ documents from a 19th century scholar.

2013 — 2014

### Walking Thumbs

Full Stack Developer

- ▶ Integrating PHP and ejabberd based nodes and their respective database nodes into a custom XMPP-based messaging system.
  - ▶ Apache Thrift was used to enable direct communication between the PHP and ejabberd nodes.
  - ▶ ejabberd calls originally queried the database through Thrift calls to PHP. Rewrote to have the ejabberd nodes directly query the PostgreSQL cluster when possible.
- ▶ Created syncing algorithm for finding other users on the system.
  - ▶ Hashing was used for matches instead of unencrypted contact information.
  - ▶ This was done to protect privacy concerns while still being able to match other users.

- ▶ Normalized email and phone numbers to prevent false positives and maximize matches. This was extremely important since all contacts were stored only as hashes.
- ▶ Improved and expanded automated testing suite; increased the code coverage and reduced the execution time.
- ▶ Handled all server related tasks to support other developers working on the Android and iOS clients.
  - ▶ Set up Nagios on an AWS instance.
  - ▶ Installed, configured, and upgrading of servers.
- ▶ Built automated server build scripts for use by the rest of the team, decreasing the server-side ramp up time for new app developers.
- ▶ Handled overseeing implementing company websites.

## 2008 — 2013

### Kb Port

#### Server & Web Developer

- ▶ Handled UI design and implementation on several major software revisions.
  - ▶ Utilized HTML5/CSS3 for maximum compatibility in the future.
  - ▶ Previous versions were hacked to work on Internet Explorer with a proprietary Active X control.
- ▶ Developed RAID-based archival system for compiling video sessions from network connected video recording products.
  - ▶ System has up to 14TB of storage allowing hundreds of days of recording video to be quickly searched, indexed, and shared.
  - ▶ Automated backups to the archival unit eases consolation of student videos and prevents the video records from filling up.
- ▶ Developed customized customer management and inventory management software.
  - ▶ Features included allowing automated upgrades to systems out in the field to facilitate up-selling new products and features.
  - ▶ The system interfaced with copy protection code on the systems to prevent unauthorized cloning.
- ▶ Designed a new video package format to allow exchange of data between the company's various products.
  - ▶ Designed to be easily extendable at future times to allow any type of metadata or otherwise to be added without breaking backwards compatibility.
  - ▶ Utilized OSS tools for maximum inter-compatibility on different platforms.

## Education

### 2005 — 2009

#### Art Institute of Pittsburgh

Graduated with Bachelor degree in Graphic Design

## References

References available upon request.