

Adam Townsend

FULL STACK DEVELOPER · USABILITY ENGINEER

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Observe. Analyze. Plan. Execute.

Summary

Owner & Jack of All Trades at Desnudo Penguino Designs. 10+ years of experience in full stack web development, with a recent focus on infrastructure automation and usability engineering. Enjoy working in new problem spaces and interested in finding ways to simplify tasks and workflows and make life easier for everyone.

Work Experience

Talar.io

Spokane, WA

CONTRACT DEVELOPER

Mar 2017 - Jun 2018

- Maintained and updated website functionality
- Managed server updates and upgrades on Ubuntu 14.04 and Ubuntu 16.04
- Developed and implemented infrastructure automation
- Implemented new serverless site functionality
- Started implementing automated front-end testing
- Worked with Twilio's API to send and receive SMS messages
- Tools used: Ansible, Apache, Asana, AWS resources, BitBucket, CodeIgniter, Git, HTML & CSS, JavaScript/jQuery, Jira, Katalon Recorder, MetaBase, MySQL, PHP, Riot/Matrix, Shell Scripting, Slack, Stripe, Terraform, Twilio

HKW

Spokane, WA

CONTRACT DEVELOPER

Jul - Oct 2016

- Worked with HKW on a client project for [International Service Learning \(ISL\)](#)
- Built a custom WordPress chat plugin
- Built a custom WordPress plugin functionality to trigger events and automate an internal mailing system
- Fixed other assigned issues
- Implemented a file and database backup
- Tools used: Apache, Git, HTML & CSS, JavaScript/jQuery, MySQL, PHP, Shell Scripting, Trello, WordPress

thingCHARGER

Spokane, WA

CONTRACT DEVELOPER

Jan - Jul 2016

- Maintained and updated internal billing reporting website
- Built an employee access tracking system to manage what users had access to what login information
- Optimized SQL queries to run faster (reducing time from minutes to seconds for many queries)
- Started the group on version control using Git and BitBucket
- Tools used: CodeIgniter, Git, HTML & CSS, JavaScript/jQuery, MySQL, PHP, Slack

Spokane Industries

Spokane, WA

CONTRACT DEVELOPER

Jun - Sep 2015

- Updated website with new information
- Discussed migrating current site to Joomla
- Tools used: HTML & CSS

American Fine Art Company/Top Drawer Media

Spokane, WA

CONTRACT DEVELOPER

Oct 2014 - Present

- Flootie.com development
 - Migrated from old, outdated server to a new one
 - Managed and updated website
 - Implemented Stripe as a payment gateway
 - Utilized multiple social networking APIs including Facebook, Pinterest, Twitter, and LinkedIn to share user content
 - Implemented MailChimp API for email sending
- Managed and upgraded WordPress installations for Art Chowder, Top Drawer Media, and Northwest Aerospace News websites
- Built a new version of FlyFlicker.com
- Built a mailing list management tool for Top Drawer Media magazines: Art Chowder and Northwest Aerospace News
- Tools used: Adobe Photoshop, Apache, BlueHost, Bootstrap, Git, GoDaddy, HTML & CSS, JavaScript/jQuery, MailChimp, MySQL, PHP, Ruby on Rails, SASS/SCSS, Stripe, Vultr, WordPress

Unlucky Sandpiper Company

Rochester, NY & Spokane, WA

CTO & LEAD DEVELOPER

Oct 2013 - Apr 2015

- Led a team of student developers to build a job search & applicant tracking system during an entrepreneurship course
- Ended up building the same thing using three web frameworks: Ruby on Rails, phpDolphin (now phpSocial), and CodeIgniter
- Tools used: Apache, BitBucket, Bootstrap, CakePHP, Git, Heroku, HTML & CSS, JavaScript/jQuery, PHP, phpDolphin, PostgreSQL, Ruby on Rails, Stripe

Rochester Institute of Technology

Rochester, NY

GRADUATE RESEARCH ASSISTANT

Mar - Oct 2013

- Developed CMS/API to manage data for mobile tourism iOS app
- Tools used: BitBucket, Bootstrap, Git, Heroku, HTML & CSS, JavaScript/jQuery, PostgreSQL, Ruby on Rails

Rochester Institute of Technology

Rochester, NY

GRADUATE TEACHERS ASSISTANT

Aug 2010 - May 2013

- Tutored and assisted students in and out of the classroom for C++, HTML & CSS, Java, JavaScript, MySQL, PHP, and Usability Engineering
- Assisted professors in the classroom
- Graded assignments

Carlisle SynTec

Carlisle, PA

WEB INTERN

May - Aug 2010

- Maintained internal websites
- Built Roof Rep. Locator web application
- Worked on SharePoint sites for multiple internal departments
- Tools used: asp.net, Google Maps API, HTML & CSS, JavaScript/jQuery, MS SharePoint

Tyco Electronics

Harrisburg, PA

IT INTERN

May - Aug 2009

- Created video training courses on information sharing technologies
- Edited AV content
- Assisted in setting up, broadcasting, and recording live events
- Analyzed multiple multimedia editing software applications to determine the best one for the department's needs

Carlisle SynTec

Carlisle, PA

WEB INTERN

May - Aug 2008

- Maintained internal websites
- Developed an interface to present manufacturing metrics at a local plant
- Updated the interface of an internal business card creation application
- Tools used: ASP.NET, ColdFusion, Flash, HTML & CSS

RIT NPPA

Rochester, NY

WEB DEVELOPER

Mar - May 2008

- Updated website layout and content
- Tools used: HTML & CSS

Carlisle SynTec

Carlisle, PA

WEB INTERN

May - Aug 2007

- Built and maintained an internal health and culture website
- Updated websites for multiple clients
- Tools used: Adobe Photoshop, HTML & CSS

Other Projects

Puma

Spokane, WA

RUBY ON RAILS WEB SERVER

Mar 2018

- [GitHub](#)
- Added tools to run Puma as a service on FreeBSD

YACFR

Spokane, WA

YET ANOTHER CRYPTO FAUCET ROTATOR

Oct 2017 - Present

- [YACFR](#)
- Designed and built YACFR to be a simple cryptocurrency rotator providing maximum results for users
- Implemented infrastructure automation to manage services
- Tools used: Ansible, FreeBSD, Git, HTML & CSS, Javascript, NGINX, Postgresql, renv, RSpec, Ruby on Rails, SASS/SCSS, Terraform, Vult

Work Logger (WL)

CUSTOM SHELL-BASED TIME-TRACKING SCRIPT

- [GitHub](#)
- Wrote a custom shell script utilizing tmux sessions to track time spent on projects and produce PDF invoices
- Tools used: LaTeX, mandoc, Shell scripting, tmux, vim

[Spokane, WA](#)

Feb 2016 - Present

Brick City Tours

HCI RESEARCH PROJECT

- [Blended Interactions](#)
- Worked with a group of multidisciplinary graduate students to design and build a mobile blended-space interface for virtual tourism

[Rochester, NY](#)

Aug 2012 - Mar 2013

FTIR Touch Screen

HCI INDEPENDENT STUDY

- Designed and built a FTIR based multi-touch table surface to interact with a Windows desktop computer

[Rochester, NY](#)

Mar 2011 - Dec 2012

Evaluation of RIT's University Website

USABILITY TESTING

- Worked in a team to design, write, and run a quantitative usability test on RIT's University Website
- Presented results to staff and offered suggestions to improve website usability

[Rochester, NY](#)

Mar - May 2011

Home Chef

USABILITY ENGINEERING

- Worked in a team from ideation to testing of a "wizard of oz" prototype of an interface
- Built a gesture and voice interactive cookbook

[Rochester, NY](#)

Mar - May 2011

RIT Just Press Play

COLLEGE LIFE, GAMIFIED

- Tested web interface and fixed issues
- Tools used: HTML & CSS, JavaScript/jQuery

[Rochester, NY](#)

Oct 2010

Photomeister

BS CAPSTONE

- [GitHub](#)
- Designed and built a photographer-based image portfolio website
- Tools used: FreeBSD, HTML & CSS, JavaScript/jQuery, PHP, PostgreSQL

[Rochester, NY](#)

Mar - May 2009

Computers

GENERAL EXPERIENCE

- Built, repaired, and modded many desktop, server, and laptop computers
- Involved in Bitcoin/Cryptocurrency community
- Experience with Windows, MacOS, Linux, and Free/OpenBSD
- Involved in [World Community Grid](#)
- Ranked overclocker on [HWBOT](#)

[Everywhere](#)

1998 - Present

Education

Rochester Institute of Technology

M.S. IN HUMAN-COMPUTER INTERACTION

- Explored topics in Usability Engineering, Usability Testing, Agent-based modelling, Multimedia, and Machine learning

[Rochester, NY](#)

Aug 2010 - May 2014

Rochester Institute of Technology

B.S. IN INFORMATION TECHNOLOGY

- Concentrated in Web Development, Database Administration, and Knowledge Management Systems
- Liberal Arts concentration in American Sign Language

[Rochester, NY](#)

Aug 2005 - May 2010

Carlisle High School

- General coursework, AP Calculus A, AP Computer Science, AP German

[Carlisle, PA](#)

Aug 2002 - Jun 2005