# 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, MySQL, PHP, Riot/Matrix, Shell Scripting, Terraform, Slack, Stripe, 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*

- Managed Flootie.com development
- Implemented Stripe as a payment gateway for Flootie.com, ArtChowder.com, and NorthwestAerospaceNews.com
- Utilized multiple social networking APIs including Facebook, Pinterest, Twitter, and Linkedin to share user content on Flootie.com
- Connected Flootie website through MailChimp for email processing
- Upgraded and managed WordPress installations for Art Chowder, Top Drawer Media, and Northwest Aerospace News websites
- Built a new version of FlyFlicker.com using Ruby on Rails
- Built a mailing list management tool using Ruby on Rails 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 TEACERS 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 internel 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*

- Puma Jungle rc.d
- 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, rbenv, RSpec, Ruby on Rails, SASS/SCSS, Terraform, Vultr

### Work Logger (WL)

CUSTOM SHELL-BASED TIME-TRACKING SCRIPT

*Spokane, WA*

*Feb 2016 - Present*

- 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

### Brick City Tours

HCI RESEARCH PROJECT

*Rochester, NY*

*Aug 2012 - Mar 2013*

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

### FTIR Touch Screen

HCI INDEPENDENT STUDY

*Rochester, NY*

*Mar 2011 - Dec 2012*

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

### Evaluation of RIT's University Website

USABILITY TESTING

*Rochester, NY*

*Mar - May 2011*

- 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

### Home Chef

USABILITY ENGINEERING

*Rochester, NY*

*Mar - May 2011*

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

### RIT Just Press Play

COLLEGE LIFE, GAMIFIED

*Rochester, NY*

*Oct 2010*

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

### Photomeister

BS CAPSTONE

*Rochester, NY*

*Mar - May 2009*

- Photomeister
- Designed and built a photographer-based image portfolio website
- Tools used: FreeBSD, HTML & CSS, JavaScript/jQuery, PHP, PostgreSQL

### Computers

GENERAL EXPERIENCE

*Everywhere*

*1998 - Present*

- 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

## Education

### Rochester Institute of Technology

M.S. IN HUMAN-COMPUTER INTERACTION

*Rochester, NY*

*Aug 2010 - May 2014*

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

### Rochester Institute of Technology

B.S. IN INFORMATION TECHNOLOGY

*Rochester, NY*

*Aug 2005 - May 2010*

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

### Carlisle High School

*Carlisle, PA*

*Aug 2002 - Jun 2005*

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