

# Dan Bickford

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<https://github.com/danbickford007>

## Summary

An accomplished, self-taught and passionate software engineer dedicated to innovative technologies and the agile process seeking technical challenges, and ways to improve the software engineering needs of organizations and contribute to the open source community.

## Professional Experience And Accomplishments

Programming experience with Ruby, Rails, Javascript, Node.js, Express, Socket.io, Docker, Elixir, Phoenix, Python, Django, Angular, React, Redux, Regexp, Salt, Solr, jQuery, Prototype, Java, PHP, MySQL, Postgres, Resque, Node.js, Mongo, Sqlite3, HTML5, CSS, C# .NET, ASP.NET MVC, CoffeeScript, Haml, Apex, and jruby.

Experience using Linode, AWS(EC2, S3), Git, Github, linux, rspec, VIM, tmux, Docker, Vagrant, Virtualbox, Ubuntu, Ubuntu Server, CentOS, Debian, Agile, scrum, cucumber, capybara, capybara-webkit, automation, Sealevel I/O, Twitter Bootstrap, Nginx, Passenger, VPS, Custom gems, Android, Bash, SSH, gtk2, JSON, xml, tdd, pull requests and pair programming.

- Built and maintained large scale, multiple merchant billing system
- Lead engineer for multi-language and multi-framework executor
- Integrated SOA into EC2 autoscaling via Salt Stack
- Held Dev Ops role multiple times while still full time programming
- Implemented challenge types via angular, rails and browserified Node.js modules.
- Innovated Socket.io into main educational course platform
- Taught and built both tools and course for *Breaking the Ice with Regular Expressions* course
- Node.js / Docker executor for code submissions in multitude of languages and frameworks
- Maintained a 220 model rails 2 app without any rollbacks
- VP of Development leading several developers
- Successfully met daily releases into production
- Fully automated several web applications
- Successfully built and released multiple lab support apps within service-oriented architecture
- Created interface with couriers through a touch screen delivery app
- Created workflow app with interface to multiple hardware components
- Integrated new software into new laboratories
- Interfaced with custom built exercise machinery via I/O module

## Work History

**United Games**, Salt Lake City, Utah (remote)

Software Engineer III

7/2017 – Present

Remote engineer supporting back office and billing-related items. Several game features built using Rails 5. Built AWS EC2 autoscaling infrastructure via Salt Cloud and Python on Ubuntu servers. Supported server scaling and maintenance as well as emergencies. Integrated several payment processing systems including Braintree, Vantiv and PayPal. Handled thousands of users, billing hundreds of thousands per month.

- Rails 5
- Haml
- Postgres
- Redis
- Salt Stack
- Ubuntu
- AWS

**Sticker Mule**, Amsterdam, NY (remote)

Software Engineer III

9/2016 – 5/2017

Remote engineer supporting automation of the design and printing process, as well as general application support to on-duty shifts. Sticker cut automation performed via Illustrator scripting (ecmascript 3). Upgraded main application from Backbone.js to React.js using Redux and GraphQL for interaction with the Rails 5 application.

- Rails 4/5
- React.js
- Redux
- Haml
- GraphQL
- Postgres
- Redis
- Illustrator Scripting

**Code School**, Orlando FL (partial remote)

Software Engineer III

9/2014 – 9/2016

Lead engineer on code executor implementing the execution of user's code within emulated browserified modules or Docker containers in languages such as Python, Ruby, .NET and more. Implemented Angular and Rails-based front end and backend improvements. Taught the *Breaking the Ice with Regular Expressions* course. Hosted several Ruby 5 podcasts and screencasts. Built client facing application, open source applications and consult practicing developers the latest technologies.

- Rails 4+
- Node.js
- Socket.io
- Express
- Haml
- Coffeescript
- Ubuntu
- Postgres
- Custom dsl
- Docker
- Sinatra
- Redis
- Salt
- Angular

**Software On Rails LLC**, Orlando FL

Owner and Software Engineer

3/2014 – 12/2017

Co-operator of web development and consulting agency. Utilized Ruby, Node.js and Phoenix to develop both client facing application, open-source applications. Acted as consultant to practicing developers the latest technologies.

- Rails 4+
- Node.js
- Socket.io
- Express
- Elixir
- Phoenix
- Haml
- Coffeescript
- Ubuntu
- Postgres
- Redis

**StreetCred Software Inc**, Dallas, TX (remote)

VP of Software Development

6/2014 – 3/2015

Responsible for all software (Rails) development and server setup. Worked with Rails 4 streaming, COBOL file parsing, CentOS server setup and entire production process. Came on as senior developer and addressed multitude of issues, resulting in promotion to VP.

- Rails 4.2
- CentOS
- Postgres, SideKiq, Resque
- Javascript, JQuery, JSON, Rspec, Testunit
- Redis

**Snehta LLC**, Atlanta, GA, Software Developer

8/2013 – 6/2014

Developed Ruby on Rails, Salesforce and Android applications to meet business needs. Integrated Rails applications with Google Adwords and Salesforce. Set up service-oriented architecture via EC2 with Ubuntu server and integrated Salesforce into cluster. General IT assistance to for company employees.

- Rails 3.2.1 +
- Android
- Postgres, Solr, Resque
- Javascript, JQuery, Prototype, JSON, Rspec
- Front end and back end applications
- Agile/TDD Development
- Redis

**CBL Path/Sonic Health Care**, Ocala, FL

Senior Software Developer II

5/2011 – 8/2013

Hired on as a junior developer. Within 5 months promoted to developer II and was taken to the lead Rails developer role. In charge of building out a year-long enterprise edition of the main company app in order to meet the needs of the newly integrated labs into the company. Built several smaller lab process applications for client support . Trained other developers on process and general programming practices.

Ruby v- (1.8, 1.9), Rails v- (2.3.5, 3.0.4, 3.2)

- Linux platform/ Git/Vim/Tmux
- MsSql/Mysql/MongoDB
- Javascript, JQuery, Prototype, JSON, Rspec
- Front end and back end applications supporting multiple browsers
- Agile/TDD Development
- Training junior developers
- Leader in new application deployment

- Introduced automation to process

## **Freelance Software/Web Developer**

Self Employed Web Developer

1/2008 – 1/2014

Lead engineer integrating software into custom-built exercise machinery via I/O modules. Built multiple web applications for clients meeting business needs. Customized and repaired many prebuilt web applications. Direct communication with end users offering initial consultation all the way to final support.

PHP based web applications

- C# .Net and Java desktop applications
- Custom interfacing to hardware
- Application repair
- Direct contact with end users

## **Education**

University of Illinois

Springfield, Illinois

Bachelor of Science, Computer Science

Partially completed

Santé Fe Community College,

Gainesville, FL

Associate of Arts degree in Engineering

Graduated: 4/25/10

Universal Technical Institute/BMW STEP

Exton PA/Orlando FL,

Electrical Diagnostic Specialist

09/15/04 – 01/15/07

## **Other Professional Activities**

BMW Electronics Diagnostic Specialist

BMW of NA

1/2003 – 8/2008

Diagnostic specialist, debugging complex electronic systems from electrical to multidirectional bus systems to full fiber optic communication systems. Updated software on multiple module setups and performed general repair.