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# Clinton Dreisbach

## Summary

I am a senior developer with 15 years of experience, focusing on web development and data science.

I love using Python for its simplicity and practicality. The ability to do complex data manipulations with a few list comprehensions is amazing. The library support for going even further with tools like Pandas is incredible. For the same reason, I enjoy programming in Clojure. It has the expressiveness of Lisp combined with pragmatic choices like a rich set of literal data structures, immutability, and straightforward concurrency models.

My passion is teaching and mentoring other developers. When not working full-time as a teacher, I volunteer for community events like ClojureBridge, local Teen Tech Camps, and in public schools.

## Skills

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|---------------|--|
| Expert        | Python, Ruby, SQL  |
| Proficient    | Clojure, Perl, JavaScript, HTML, Django, Flask, API design |
| Competent     | Machine learning, Pandas, NumPy, Scheme, CSS               |
| Beginner      | L <sup>A</sup> T <sub>E</sub> X, interpreters              |
| Want to learn | Common Lisp, compiler design                               |

## Experience

Apr 2014 – **Programming instructor**, *The Iron Yard*, Durham, NC.

present I teach intensive 12-week courses in Python and data science to beginning programmers, equipping them with the knowledge and tools they need to succeed in their careers.

- Created a Python and data science curriculum.
- Developed a Ruby and Rails curriculum.
- Placed students with companies such as Red Hat, Intuit, and Automated Insights.

- Nov 2012 – **Technology & Innovation Fellow**, *Consumer Financial Protection Bureau*,  
Apr 2014 Washington, DC.  
Built systems to help American consumers and to improve government.
- Designed and created Qu, a data platform used to serve public datasets. Qu is capable of streaming datasets of arbitrary length, ingesting and manipulating datasets based off definition files, and batch processing map-reduce jobs on that data. Qu is powered by Clojure and MongoDB.
  - Co-chair of the Open Source Working Group. Helped coordinate a major effort to open source over a dozen projects.
  - Helped organize an internal testing mini-conference aimed at increasing testing on CFPB projects. Within a year, all projects were using continuous integration and had comprehensive test suites.
- Aug 2011 – **Software Developer**, *Relevance (now Cognitect)*, Durham, NC.  
Nov 2012 Designed, created, and improved large software systems in Ruby and Clojure. Created Diametric, a Ruby ActiveRecord-compliant interface to the Datomic database.
- Aug 2007 – **Development Director**, *Viget Labs*, Durham, NC.  
Mar 2011 Led Durham, NC and Washington, DC based development teams. Worked as lead developer on Ruby on Rails projects for established businesses and startup clients.
- Sep 2005 – **Senior Developer**, *Lulu.com*, Morrisville, NC.  
Jul 2007 Led development team for community features at this startup, meeting the needs of hundreds of thousands of users.
- July 2003 – **Assistant Vice-President**, *ShowMaster Systems*, New Orleans, LA.  
Aug 2005 Designed numerous web applications in PHP and Ruby on Rails, including a conference registration system. Managed information technology department of developers and information analysts and oversaw the administration of multi-million dollar trade shows.
- Oct 1999 – **Contractor**, Washington, DC and Seattle, WA.  
July 2003 Worked as a contractor, using Perl and PHP, for organizations such as Boeing, Real Networks, AT&T Wireless, and various government agencies.

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## Volunteer Projects

- 2014 **ClojureBridge.**  
ClojureBridge is an initiative to increase diversity within the Clojure community by offering free, beginner-friendly workshops for women. I was the lead author of the core curriculum, and taught the first workshop.
- 2013 **Citizen Schools.**  
I taught Scheme using the Bootstrap curriculum through the Citizen Schools after-school program for 6th-8th graders.
- 2013 **Teen Tech Camp.**  
Teen Tech Camp was a day-long event that members of Refresh the Triangle and the Triangle Python Users' Group organized with the help of the Durham County Library. We successfully applied for a grant from the Python Software Foundation to purchase Raspberry Pis for 20 students, aged 12-18. I was an organizer and lead teacher.