# Clinton Dreisbach

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## 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 | LaTeX, interpreters |
| Want to learn | Common Lisp, compiler design |

## Experience

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

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| Nov 2012 – Apr 2014 | **Technology & Innovation Fellow**, *Consumer Financial Protection Bureau*, 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.

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| Aug 2011 – Nov 2012 | **Software Developer**, *Relevance (now Cognitect)*, Durham, NC. |

Designed, created, and improved large software systems in Ruby and Clojure. Created Diametric, a Ruby ActiveModel-compliant interface to the Datomic database.

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| Aug 2007 – Mar 2011 | **Development Director**, *Viget Labs*, Durham, NC. |

Led Durham, NC and Washington, DC based development teams. Worked as lead developer on Ruby on Rails projects for established businesses and startup clients.

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| Sep 2005 – Jul 2007 | **Senior Developer**, *Lulu.com*, Morrisville, NC. |

Led development team for community features at this startup, meeting the needs of hundreds of thousands of users.

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| July 2003 – Aug 2005 | **Assistant Vice-President**, *ShowMaster Systems*, New Orleans, LA. |

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.

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| Oct 1999 – July 2003 | **Contractor**, Washington, DC and Seattle, WA. |

Worked as a contractor, using Perl and PHP, for organizations such as Boeing, Real Networks, AT&T Wireless, and various government agencies.

## 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.