Peter Hurford

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PROGRAMMING SKILLS

- **Expert:** R
- **Advanced:** Ruby/Rails, Python (Pandas/Numpy/Scipy), SQL
- **Intermediate:** Haskell, JavaScript (Coffee / Ajax / jQuery / Node / Angular), HTML5/CSS, PHP
- **Beginner:** C/C++, K, Julia, Rust, Go, Scala, Clojure, Julia, Elixir/Phoenix
- **Other Tools:** Spark/HDFS, AWS (EC2/EBS/EMR/S3), SPSS, STATA, Looker, Postgres, Mongo, Express, Heroku, Git

EXPERIENCE

Sr. Data Engineer, Team Lead, AvantCredit
Chicago, IL — June 2014 - Present

- Progressed through the ranks, starting as a software engineering intern working in Ruby/Rails and working my way up to **managing a team of four other data engineers** by December 2015, building our in-house and open source R infrastructure for building and deploying models quickly and accurately.

- **Worked on the front-end and back-end of our customer-facing website**, building logic for automating customer coupons and incentives, saving hundreds of hours of time spent by customer service representatives.

- **Increased the speed of our modeling workflow** through writing a Ruby/Sinatra microservice to write SQL queries that are instantly production-ready and available in predictive models. This microservice has been widely used not just by data scientists, but also other analysts in the business.

- **Created automated systems to detect and resolve data integrity errors**, interfacing both Ruby and R, saving hours of work each week and catching errors that would have been critical if not noticed early.

Freelance Web Developer, Jorge's Trading Post
Columbus, OH — Feb-June 2014

- **Worked as a freelance PHP web developer**, working for a (now defunct) web platform to allow college students to buy and sell clothing from each other.

- **Created both front-end and back-end logic for a system to allow users to upload pictures of their clothing**, working in both PHP and JavaScript.

OTHER SELECTED PROJECTS

Polygot Euler   https://github.com/peterhurford/polygot-euler
- Solutions for Project Euler problems implemented in 12 different programming languages.

Checkr   https://github.com/peterhurford/checkr
- An R package that implements precondition and postcondition verification and property-based testing (quickcheck) in R, speeding up the writing of unit tests and improving the accuracy of code.

DBTest   https://github.com/avantcredit/dbtest
- An R package for automated database testing. I also gave a talk about how this package works at a local R meetup.

Git-it-on   https://github.com/peterhurford/git-it-on.zsh
- A shell/bash plugin that lets you quickly navigate to online GitHub pages through the command line.

EDUCATION

Denison University
Bachelor's Degrees in Political Science, Psychology, and Organizational Studies -- 2010-2014
GPA: 3.53, Pi Sigma Alpha
Thesis: Participation and Optimism in the Political Context: How Optimism Both Helps and Hinders Political Participation