

Peter Hurford

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PROGRAMMING SKILLS

- Front-end web development using JavaScript, HTML, CSS, and jQuery
- Back-end web development using Ruby on Rails, C++, Python, PHP, and MySQL
- Statistics and machine learning using SPSS, STATA, R, and Excel

EXPERIENCE

Software Engineer Intern, AvantCredit

Chicago, IL — June-August 2014

AvantCredit, www.avantcredit.com, is a start-up that provides next-day loans to people with near-prime credit ratings. I will work to improve the back-end of the site using Ruby on Rails and use R to improve financial models of default risk.

Co-founder, .impact — 2013-

Co-founded .impact, www.dotimpact.im, a volunteer force working on projects with the aim to build community and make the world a better place. Has grown to 202 members working on 15 projects.

Web Developer, Jorge's Trading Post — 2014-

Jorge's Trading Post, www.jorgestradingpost.com, is a website that provides a marketplace for Mount Holyoke students to buy and sell items. I've implemented image uploading in PHP and have helped with back-end MySQL database management.

Research Manager, Giving What We Can

Oxford, England — 2013

Worked for Giving What We Can, <http://www.givingwhatwecan.org>, an Oxford University based non-profit that evaluates approaches to eliminating extreme poverty in Africa.

- Completed impact reviews of the Copenhagen Consensus Centre, Cool Earth, Sandbag, and Solar Aid.
- Used R to employ a Markov-Chain Monte Carlo Model to simulate cost-effectiveness estimates for the Disease Control Priorities Project.

OTHER PROJECTS

Denison Convention

<http://www.denisonconvention.com/>

- A website made for our college's gaming convention, with front-end written in CSS and JavaScript and JQuery, making use of the Backstretch plugin.

Denison Convention

<http://www.jobboard.im>

- Scrapes the websites of companies working in the global development sphere to automatically gather their job offers into one common place for people to reference. Back-end in Ruby on Rails and front-end in CSS and JavaScript.

A Genetic Algorithm for The Travelling Salesman Problem

https://github.com/peterhurford/travelling_salesman

- Written in Python, this program uses a genetic algorithm with greedy mutation to find optimal solutions to the Travelling Salesman Problem.

The Great Gatsby Text Adventure

<http://www.peterhurford.com/gatsby>

- A text-adventure that follows *The Great Gatsby* by F. Scott Fitzgerald. The interface is written in JavaScript, but aims to mimic the old Infocom interfaces found in the 1980s.

EDUCATION

Denison University

Bachelor's Degree 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