Isaac Hollander McCreery

ihm@robotswithhearts.org   blog.robotswithhearts.org
240.620.9840

EDUCATION

B.A., Mathematics - *Oberlin College, Oberlin, OH*   May 2014

- 3.9 GPA, Phi Beta Kappa
- Relevant coursework included Compilers, Algorithms, Theory of Computation, Programming Abstractions, Computer Organization, Group Theory, Foundations of Analysis, and Probability
- Other coursework included courses in economics, politics, philosophy, religion, and rhetoric

EXPERIENCE

Data Scientist, pro bono - *Bayes Impact, San Francisco, CA*   September 2014 - Present

- Serving as lead data scientist to determine data metrics to be used by the City of San Francisco for a pay-for-success model to better address homelessness in San Francisco
- Responsible for reconstructing families' historical interactions with homelessness system and determining feasibility of metrics given data constraints

Data Science for Social Good Fellow - *University of Chicago, Chicago, IL*   June 2014 - August 2014

- Conducted data science research for social good partners around Chicago, including data exploration, cleaning, modeling, visualization, and presentation, as well as client and project management
- Evaluated pathways to stable housing with the Chicago Alliance to End Homelessness
- Developed metrics and predictive models for client engagement with Health Leads

Software Engineer - *Democratic National Committee, Washington, DC*   June 2012 - November 2012

- Designed, developed, and managed a software application to process and visualize campaign data, including polling, canvassing, and television, radio, and online advertising
- Clients included Obama for America and congressional campaign management, media, and pollsters
- Responsible for complex database, back-end, and front-end development in a small team of engineers

Teaching Assistant - *Oberlin College Computer Science, Oberlin, OH*   August 2011 - June 2012

- Planned and taught curriculum of exercises and discussions to complement lectures and labs for Fundamentals of Computer Science with another student teaching assistant

Research Assistant - *Oberlin College Computer Science, Oberlin, OH*   June 2011 - August 2011

- Evaluated currently-available open-source audit systems with another student and professor
- Read, modified, and compiled kernel sources to understand design decisions and inefficiencies
- Identified, tested, and submitted bug tickets to open-source and closed-source projects

Operations Manager - *Oberlin Student Cooperative Association, Oberlin, OH*   May 2010 - May 2011

- Ensured the safe, efficient, and smooth operation of nine student-run dining halls serving 626 students, working with another student Operations Manager
- Oversaw management, food safety, and food-buying staff, and local foods, composting, and environmental concerns programs, and acted as emergency contact for all dining halls
- Served on board of directors; authored, submitted, and advised proposals for improvements in management structures and policies; facilitated and participated in consensus-based discussions on board
- Worked with college staff to facilitate, design, plan, and schedule construction of new dining hall
- Prior to serving as Operations Manager, managed kitchen and facilitated consensus-based discussions in 100-person cooperative dining hall, leading elections of staff/management and discussions of policies

SKILLS

Technical

- GitHub: @ihmccreery (most of my professional work is closed-source, but I can get technical recommendations upon request)
- Proficient in Python, Pandas, Ruby, Rails, SQL, Java, Bash, LaTeX; some experience with Haskell, Rust, Scheme, C
- Experienced working in technically diverse teams on production projects with thousands of lines of code and on research projects including systems and data science research
- Comfortable with theoretical algorithms, software engineering principles, and programming language concepts, including compiler construction

Leadership

- Experienced with organizing and working in teams, client and project management, delegation, and writing proposals
- Comfortable facilitating small- and large-scale contentious dialogues (2 to 100 people)

EXTRACURRICULAR

I serve as a lead organizer with the Oberlin Alumni for a Responsible Endowment, working with alumni, students, administrators, and industry experts across the United States to move Oberlin College toward a more responsibly-invested endowment. I regularly facilitate meetings, plan outreach, and delegate responsibilities.

Last summer I cycled from Seattle, WA, to Los Angeles, CA, and I completed my first triathlon this spring. Last fall I worked at George Jones Memorial Farm in Oberlin, and I have been an avid cook my entire life, including in the cooperatives at Oberlin. I practice meditation, and I facilitated the outreach group of Oberlin Meditators and lead beginners meditation workshops. My other personal interests include rock climbing and playing go, bridge, and chess.

November 12, 2014