

EVAN SANDHOEFNER

WORK EXPERIENCE

SOFTWARE PROJECTS

November 2014 - Present

Please visit <http://sandhoefner.github.io> for a portfolio of individual & team projects, including:

- CustomCatan - a web-based board layout optimizer for *The Settlers of Catan*
- AgroMod - a Chrome extension to enhance the functionality & user experience of the massively multiplayer online game Agar.io
 - Over 7,000 users in the Chrome web store
- Gravity Trainer - a training, reference, & record-keeping Android app for rock climbers
- A Connect Four game, with artificial intelligence implemented using a minimax algorithm & alpha-beta pruning
- Interactive data visualizations exploring topics such as American electoral politics, characteristics of elite rock climbers, & the economics of global climate change

AUTHOR, "SHOCK WAVES: MANAGING THE IMPACTS OF CLIMATE CHANGE ON POVERTY"

January 2015 – November 2015

Co-authored a World Bank-commissioned economic paper examining the distributional impacts of climate change in developing countries. Received a grant from the Harvard University Center for the Environment; analyzed a large dataset using Stata & Python; produced interactive visualizations using JavaScript with D3.

TUTOR, ADMISSIONS HERO

July 2014 – January 2015

Assisted clients with college preparation, providing application essay revision, SAT tutoring, & general academic & extracurricular advising.

RETAIL CLERK, KNOTT'S BERRY FARM

June 2013 – August 2013

RESEARCH INTERN, UNIVERSITY OF SOUTHERN CALIFORNIA

June 2012 – August 2012

Worked on the California Young Adult Study, which explores the determinants of educational attainment, civic engagement, & employment among California's youth. Transcribed & coded interviews; wrote topical briefs for the head professor based on qualitative data.

EDUCATION

HARVARD COLLEGE – CAMBRIDGE, MA

COMPUTER SCIENCE & ECONOMICS

August 2013 – May 2017

- Researcher & writer for the National Security Policy Group at the Harvard Institute of Politics
- Recruitment chair & freshman representative for HCC, a competitive rock climbing team
- Violinist in the Bach Society Orchestra
- Credential of Readiness in business fundamentals from Harvard Business Extension School

OXFORD ACADEMY – CYPRESS, CA

HIGH SCHOOL DIPLOMA

September 2008 – June 2013

Academic Decathlon founder & president, parliamentary debate captain, American Legion Boys State delegate, varsity track & field athlete, symphony orchestra violinist

SKILLS & INTERESTS

Programming: Python, Java, Android, JavaScript (with D3 & jQuery), C, PHP, SQL, OCaml, HTML, XML, CSS, Markdown, LaTeX, version control (Git & GitHub), Linux, Windows

Design: needfinding, prototyping (paper & Balsamiq), testing & rapid evaluation, etc.

Data Science: Stata, R, Excel with Solver, web scraping (Python & BeautifulSoup)

Languages: English, Spanish

Music: guitar, violin, mandolin, ukulele

Athletics: rock climbing, track & field, basketball

Other: backpacking, Rubik's Cube

REFERENCES

Available upon request.