Raphael Serota

(224) 595-2519

raphael.serota@gmail.com

**Education**

RefactorU, Boulder, CO
November 2013

Hampshire College, Amherst, MA
Bachelor of Arts, May 2011
Concentration: Psychology of decision making, focused on risk and uncertainty

**Skills**

*Web Development:*
Javascript: Angular.js, Vue.js, jQuery, Jasmine, Node.js, Express, socket.io, request.js, cheerio.js, phantom.js, nightmare.js, Passport.js, bcrypt.js, Mongoose.js, Amazon ASK (Alexa Skills Kit)
PHP: Wordpress theme and plugin development
Python: Mechanize, Ghost.py, Flask
Markup/Styling: HTML5, CSS3, Stylus, Jade/pug, handlebars, Jinja2, Twitter Bootstrap
Databases: MongoDB, MySQL
DevOps/Automation/Networking: Git, Bash, Vim, SSH, Ansible, Nginx, Grunt, Gulp, Selenium, iptables (Linux firewall configuration), nmap, wireshark, netcat, AWS Lambda
Protocols/Standards/Architectures: HTTP, TCP/IP, REST, Websockets

*Mobile Development:*
Apache Cordova / Adobe PhoneGap

*Game Development:*
Virtual reality development with C# in Unity3D
phaser.js using p2.js physics engine

*Scientific research:*
Matlab/Octave: Psychtoolbox, Statistical Parametric Mapping
Python: psychopy
experimental research design, statistical/probabilistic reasoning

*Audio synthesis/editing:*
HTML5 Web Audio API, author of Wad.js, published aframe-metronome-component to the A-Frame registry, Google Resonance Audio, Linux Multimedia Studio, FL Studio, Audacity

*Non-technical Skills:*
Clear, concise writing, for direct communication or documentation
Problem-solving, decision making, prioritization, team leadership, etc.
Lecturing, giving presentations/demos, public speaking, etc.
Empathy, conflict resolution, emotional support, etc.

**Relevant work experience**

CodeCraft School of Technology                                          Boulder, CO
*Lead Instructor*                                          May 2017 - December 2017
- Managed TAs
- Wrote and maintained curriculum
- Interviewed instructor applicants
- Gave technical presentations at open-house events for prospective students

RefactorU                                          Boulder, CO
*Director Of Learning Operations*                      August 2016 - February 2017
- Managed other instructors and TAs
- Wrote and maintained curriculum
- Interviewed and trained new instructors
- Coached current instructors on lecture delivery
- Ensured consistent delivery of curriculum across multiple locations
- Forecasted cost of staffing TAs at multiple locations based on predicted student needs
- Gave inspirational speeches at events, including orientation and graduation

TreeLine Homes                                          Boulder, CO
*Web Development Contractor*                                          November 2015
- Updated styling and content on treelineboulder.com

RefactorU                                          Boulder, CO
*Instructor*                                          January 2015 - August 2016
- Taught programming concepts to students
- Assessed and gave feedback on student work
- Trained new instructors
- Served as Scrum Master for internal development projects
- Facilitated weekly "group therapy" sessions with students to promote health and sanity in an intense boot camp.

Scaled Agile                                                      Boulder, CO
*Web Development Contractor*                      October 2014 - January 2015
- Developed Wordpress plugins and themes for various Scaled Agile websites

RefactorU                                                        Boulder, CO
*Web Development Contractor*                      October 2014 - January 2015
- Led development efforts to update refactoru.com

Scaled Agile                                                      Boulder, CO
*Web Developer*                                  April 2014 - October 2014
- Developed Wordpress plugins for an enterprise software application

RefactorU                                                        Boulder, CO
*Teacher's Assistant* & Web Developer              January 2014 - April 2014
- Taught programming concepts to students
- Assessed and gave feedback on student work
- Wrote programming exercises
- Helped plan educational policy and strategy with other instructors
- Developed a new website for RefactorU

Ofen Lab for Cognitive and Brain Development at Wayne State University      Detroit, MI
*Lab Manager*                                                    2011 - 2013
- Collected and analyzed fMRI data and behavioral data
- Developed and maintained object-oriented software for experiment presentation and data analysis
- Interviewed and trained new lab members
- Assisted in writing research papers and grant proposals

**Publications**

Diependaele, K., Morris, J., Serota, R. M., Bertrand, D., & Grainger, J. (2012). Breaking Boundaries: Letter Transpositions and Morphological Processing. *Language and Cognitive Processes.* **DOI:** 10.1080/01690965.2012.719082