Brooks Mason

Software Engineer | Environmental Scientist | brooksmason@gmail.com | 518.232.9707

EXPERIENCE

Hack Reactor, San Francisco, CA   August 2013 – Present
Guest Instructor
- Teach and help students with daily course curriculum
- JavaScript, Ruby, and version control

Puddle, San Francisco, CA   May 2013 – August 2013
Contract Software Engineer
- Stack: Ruby on Rails, Ember.js
- Rebuilt site for an open-beta release; developed several core features:
    - On-demand image re-sizing and uploader with S3 storage
    - Inviting feature that integrates with Facebook and Google APIs
    - Passphrase strength algorithm to protect users during key financial transactions and as a backup to Facebook authentication

DevBootcamp, San Francisco, CA   January 2013 – April 2013
Student
- 12 week intensive full-stack development course in Ruby on Rails and JavaScript
- Heavy focus on learning new frameworks, languages, TDD, pair programming, and professional development
- Final project: inspirely.co

SCS Global Services, Emeryville, CA   2011 – 2013
Contract Technical Associate
Technical Associate
- Conducted international and domestic audits of manufacturing facilities related to sustainability measures, quality management systems, and indoor air quality emission sources
- Modeled indoor air quality emission factors from various materials and products
- Trained staff on material emissions and air quality modeling

Institute of Arctic and Alpine Research, Boulder, CO   2008 – 2009
Professional Research Assistant
- Conducted research on collection methods for biogenic sesquiterpene emissions
- Collaborated on a joint INSTARR - NOAA Global Monitoring Division program to analyze trace concentrations of atmospheric pollutants at remote international sites

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EDUCATION

University of California, Berkeley, Berkeley, CA   2010
Environmental Engineering and Fluid Mechanics coursework

University of Nevada, Reno, Reno, NV   2008
M.S. Atmospheric Science

The Colorado College, Colorado Springs, CO   2004
B.A. Environmental Science
Minor in Ecological Design
- Alpha Lambda Delta Honor Society
- Ritt Kellogg Grant recipient to backpack the Continental Divide Trail

School for International Training, Belém, Brazil   2002
- Amazonian Ecology and Natural Resource Management
- Thesis Project: Micro-scale Wind Energy in Coastal Pará State

SKILLS

Programming/Web Development: Ruby, Ruby on Rails, Ember, JavaScript, SQL, jQuery, HTML5, Advanced CSS, RSpec
Software: Word, Excel, PowerPoint, MATLAB, ArcView 3, ArcGIS 9

PUBLICATIONS

J. Brooks Mason, Eric M Fujita, David E Campbell, Barbara Zielinska, "Evaluation of Passive Samplers for Assessment of Community Exposure to Toxic Air Contaminants and Related Pollutants", Environmental Science and Technology, Volume: 45, March 2011

Fujita, E.M., D. Campbell, B. Mason and B. Zielinska, Harbor Community Monitoring Study - Saturation Monitoring. Final report submitted to State of California Air Resources Board, Research Division, Sacramento, CA, December 9, 2008

D. Lowenthal, Zielinska, Mason, et al, "Aerosol characterization studies at Great Smoky Mountains National Park, Summer 2006", Journal of Geophysical Research, VOL. 114, April 2009