

# Michael A. Solomon

[@msol](#)


---

CONTACT	(phone omitted) • <a href="mailto:mike@msol.io">mike@msol.io</a> • <a href="http://msol.io">msol.io</a> • San Francisco
PROFESSIONAL EXPERIENCE	<p><a href="#">Twitter</a> in San Francisco</p> <p><b>Sr. Software Engineer</b> ..... <i>July 2014 to Present</i></p> <ul style="list-style-type: none"> <li>Expanded, simplified, and maintained the Social Graph Service, Twitter's high-throughput low-latency service for reading and writing graph edges</li> <li>Designed/implemented auto-generation of GraphQL API based on reachable data</li> <li>Worked on data federation service to efficiently compose and query reachable data</li> <li>Improved metrics loading speed by over 200%, after observing poor performance</li> <li>Led design/implementation of customer-facing features across teams and services</li> <li>Kicked off many low-investment high-reward projects by focusing on pain points</li> <li>On-call for multiple Twitter core services, including User and Social Graph services</li> </ul> <p><a href="#">Elevate</a> (formerly <a href="#">MindSnacks</a>) in San Francisco</p> <p><b>Software Engineer</b> ..... <i>February 2013 to June 2014</i></p> <ul style="list-style-type: none"> <li>Led backend engineering team extending a Python/Django RESTful JSON web API</li> <li>Designed and developed high-performance Node.js server (iOS app event analytics)</li> <li>Built and scaled backend powering <a href="#">Elevate</a>, the #2 app in App Store (Ruby on Rails)</li> <li>Responsible for orchestrating, expanding, and maintaining the backend stack</li> <li>Developed Elevate Android app: app logic, data model, UI, server integration</li> </ul> <p><a href="#">University of Idaho</a> in Moscow, Idaho</p> <p><b>Lab Instructor</b> (Computer Science I) ..... <i>August to December 2012</i></p> <p><b>Undergraduate Researcher</b> ..... <i>October 2011 to August 2012</i></p> <p><b>Lab Instructor</b> (Data Structures) ..... <i>January to May 2012</i></p> <p><a href="#">Washington River Protection Solutions</a> in Richland, Washington</p> <p><b>Computer Science Intern</b> ..... <i>Summer 2009 and Summer 2010</i></p>
SKILLS AND KNOWLEDGE	<p><b>Programming languages:</b> Scala, Python, Java, Javascript, Ruby, C++; dabbling in others.</p> <p><b>Tools &amp; skills:</b> Git, Android, Django, Postgres, MySQL, Rails, HTML/CSS, GraphQL, Linux, distributed systems, MVC, testing, TDD, scrum/agile, design patterns, algorithms</p> <p><b>Mathematics:</b> Discrete optimization, graphs, general math</p>
OPEN SOURCE SOFTWARE PROJECTS	<p><a href="#">Backmark</a> – <i>Chrome extension</i>. Backs up bookmarked pages ..... <i>October 2015</i></p> <p><a href="#">Read My Photo</a> – <i>Android app</i>. Easy text recognition for photos ..... <i>April 2014</i></p> <p><a href="#">GitHub diff syntax highlighter</a> – <i>Chrome, Firefox, &amp; Safari extension</i> ..... <i>April 2014</i></p> <p><a href="#">GitHub submodule links</a> – <i>Chrome, Firefox, &amp; Safari extension</i> ..... <i>April 2014</i></p> <p><a href="#">Flesh</a> – <i>Web application</i>. Supports campus live-action game ..... <i>April to October 2013</i></p> <ul style="list-style-type: none"> <li>Designed and implemented RESTful JSON web API in Go, using Postgres as a datastore</li> </ul> <p><a href="#">Keybearer</a> – <i>Javascript application</i> ..... <i>November 2012</i></p> <ul style="list-style-type: none"> <li>Allows <math>M</math> of <math>N</math> friends to combine secret passwords to decrypt a file that you encrypt</li> </ul>
RESEARCH PUBLICATIONS	<p>Solomon, M., Soule, T., and Heckendorn, R. “<a href="#">A Comparison of Communication Strategies in Cooperative Learning</a>.” <a href="#">GECCO</a> conference proceedings (2012), ACM. .... <i>2012</i></p> <ul style="list-style-type: none"> <li>Earned <a href="#">Best Paper</a> in the <a href="#">GECCO ALIFE</a> (artificial life) track</li> </ul>
EDUCATION	<p><a href="#">The University of Idaho</a> in Moscow, Idaho</p> <p>B.S. in <a href="#">Computer Science</a>, and B.S. in <a href="#">Mathematics</a> ..... <i>December 2012</i></p> <ul style="list-style-type: none"> <li>4.0 cumulative GPA. Completed University Honors Program.</li> </ul>