

Michael A. Solomon

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