

# Micah Wylde

micah@micahw.com  
www.micahw.com

- EDUCATION   ◇ **Wesleyan University**, Middletown, CT  
B.A. with Honors in Computer Science, May 2012
- WORK           ◇ **Software engineer**, Sift Science (2014-present)
- EXPERIENCE   Building a platform for detecting and preventing internet fraud in real-time using machine learning.
- ◇ **Labs engineer**, Quantcast (2012-2014)  
Built a real-time measurement platform that handles over 200,000 requests per second. Helped scale a real-time ad bidding platform to 500,000 auctions per second.
- ◇ **Engineering intern**, Twilio (Summer 2011)  
Built a distributed load testing tool for testing Twilio Client, which provides an API for building VoIP apps, with thousands of concurrent calls to determine the maximum number of calls a single server could support without audio degradation.
- ◇ **Researcher**, Washington University CS Department REU (Summer 2010)  
Designed and evaluated real-time scheduling algorithms for utility-aware non-preemptable, stochastic task sets using machine learning in C++. Worked under Dr. Chris Gill.
- ◇ **Programming manager**, Instructional Media Services, Wesleyan University (2008-2012)  
Maintained classroom multimedia technology and academic computing labs. Programmed and designed AMX-based integrated controllers and touch panels. Implemented a touchscreen-based classroom control system in ruby and javascript. Managed student programmers.
- PUBLICATIONS Scalable Utility Aware Scheduling Heuristics for Real-time Tasks with Stochastic Non-preemptive Execution Intervals, 23rd Euromicro Conference on Real-Time Systems
- SKILLS           ◇ Scala, Java, Ruby, Javascript, C++, R, distributed systems, L<sup>A</sup>T<sub>E</sub>X
- SOFTWARE   ◇ Frontloader (Ruby, CoffeeScript): At Twilio I wrote a distributed load testing tool for stressing the Twilio Client servers prior to launch. Flexible enough to test RTMP, SIP, WebSocket and HTTP services, it also includes a powerful web interface built with Backbone.js, system monitoring, and built-in statistical analysis of the resulting data. Currently in use at Twilio for testing RTMP and SIP services, it will also be released as open source.
- PROJECTS       ◇ Roomctrl (Ruby, Javascript, HTML5): Designed and built a classroom automation and control system with a Ruby backend and an HTML5 touchscreen interface written with Sproutcore and Node.js. Created a domain-specific language for writing drivers for classroom devices like projectors and video switchers. Allows professors to control multi-media equipment easily while improving remote support and monitoring. Currently in use at Wesleyan University (2009-present).
- ◇ Schoolweb (Ruby, Javascript, XHTML, SQL): Wrote a Ruby on Rails based portal designed to ease communication between students, faculty, and parents at high schools. Features include user customizable widgets which can include polls, html, file uploads, and other information and a calendar customized to users' clubs, courses, and grade. Integrates with school's grading system, to allow for quick access to students' grades. Allows teachers to input homework for viewing by students and parents. In use at Georgiana Bruce Kirby from 2007 to the present (2006-2008).