(pronoun.is/she)   **MIKENA WOOD**   mikena@woodmail.me

OBJECTIVE

Seeking Software Engineering position to utilize skills in developing maintainable code and infrastructure

EXPERIENCE

Software Engineer, Optimizely Inc., San Francisco, CA, April 2015-Present

- Shared responsibility for design, implementation, and maintenance (both infrastructure and code) of event ingest, storage, and analytics API consumed by Optimizely's A/B and Personalization products
- Assessed Druid performance for production-based data created with Python and the Druid REST API and run with JMeter
- Built stream processing job using Samza, Kafka, and Scala to analyze event ingest traffic behavior and detect DDOSs
- Implemented nightly HBase snapshots to S3 HDFS using Hue, Oozie, and Java

DevOps Engineer, Optimizely Inc., San Francisco, CA, November 2013-April 2015

- Designed and built backend service deployment tools (HBase, Zookeeper, Druid, and more) using AWS CloudFormation, Chef, and Cloudera Manager, including infrastructure level testing and monitoring suites
- Built and maintained AWS network stack using multi-AZ VPC subnets, NATs, and ~~custom PowerDNS~~ Route53 with dynamic syncing from EC2 instance attributes (Migration blog post here)
- Enhanced custom monitoring tools using Nagios and EC2 boto Python API with YAML-specified global, cluster, and host tiered alerts
- Deployed dynamic parallel SSH solution with Salt and custom host-key cleanup in Python for ad-hoc fixes and deploys (i.e. backend emergency life-line and temporary log-aggregator)
- Developed and maintained AWS SSO Sinatra app using Google OAuth for multiple environments and IAM policies (Backend, Production, Staging, and DevOps)
- Launched Jenkins cluster for engineering wide, multi-team, continuous integration using AWS Auto-Scaling and collocated OSX nodes for iOS development

Backend Consultant, Gradient Studios, Boston, MA, February 2013-March 2013

- Advised a five member gaming startup on infrastructure procedures for a node.js, physics based, browser game
- Developed failover system for Chef Server using DRBD, OCFS, and custom STONITH scripts to ensure high-availability for Joyent server deployment
- Created and managed automated email support using POSTFIX for server failure

Linux Systems Administrator, Knome Inc., Cambridge, MA, September 2012-November 2012

- Provided general administration and maintenance over in-house and Amazon EC2 servers to aid in development and testing of genomic interpretation software
- Implemented and tuned multiple high-speed networks and file-systems, including Infiniband and Lustre, for high-performance applications with large data sets
- Developed and tested CentOS auto-deployment using Puppet to set-up cluster environment using Sun Grid Engine over KVM virtualization for product development

High-Performance Computing System Administrator, University of Connecticut, Storrs, CT, August 2011-July 2012

- Supervise and maintain deployment, configuration management, and user level applications to ensure 24/7 reliability of Red Hat, Intel Xeon X5650 Westmere Cluster
- Provide user support and troubleshooting assistance to advance research throughout multiple university departments and research groups, and foster a central environment for high-performance computing
- Install software and monitor system performance of cluster to strive towards 100% utilization, maximum resource efficiency, and optimum job scheduling

Software Developer (Honors Thesis Program), University of Connecticut, Storrs, CT, August 2010-May 2012

- Designed a hybrid Pairs Trade/Factor Model to trade highly liquid assets using R Programming Language and Interactive Brokers API

Undergraduate Researcher, University of Connecticut, Storrs, CT, June 2011-August 2011

- Analyzed HTTP traffic from campus Wi-Fi gateway router to investigate possible trends between non-mobile and mobile devices and discover possible improvements in mobile device protocols and cache storage

PRIDE PROJECTS

Contributor/Maintainer, Refuge Restrooms, refugerestrooms.org
- Contributed bug-fixes and improvements to open source Rails app, mapping transgender friendly and ADA accessible public restrooms
- Implemented development environment setup using Vagrant and BASH to enable group of remote developers to contribute quickly

EDUCATION

University of Connecticut, Storrs, CT
Bachelor of Science in Engineering, Computer Science and Engineering, May 2012 Minor in Mathematics
G.P.A. 3.65/4.00, Honors Program, Dean's List
Study Abroad: University College Dublin, Dublin, Ireland, January 2011-May 2011