

Vivek Sivakumar

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Objective: Looking to work on: back-end services, distributed systems, scalable infrastructure, and cloud computing

Education

University Of California, Los Angeles, Los Angeles, California Expected June 2017

- **School of Engineering and Applied Science**, Masters of Science, Computer Science
- **GPA:** (3.72/4.0)
- **Notable Courses:** Operating Systems, Database Systems, Scalable Internet Architectures, Cloud Computing, Parallel and Distributed Computing, Network Fundamentals, Internet Architecture and Protocols
- **Capstone Project:** Building a Distributed Fault Tolerant Key-Value Store
 - Implemented the distributed consensus algorithm Raft detailed in *In Search of an Understandable Consensus Algorithm*
 - Built a distributed key-value store by using my Raft implementation to maintain a global transaction log
 - Worked with: Go, Go's net/rpc library

University Of Pennsylvania, Philadelphia, Pennsylvania May 2012

- **School of Engineering and Applied Science**, Bachelor of Science in Engineering, Bioengineering.

Technical Skills

Languages: Java, C, Python, Ruby, Go, C++, PHP, SQL, JavaScript

Cloud: AWS, Amazon S3, Amazon Cloud Formation, Amazon ELB, Docker, DockerHub

Distributed: Memcached, Spark, SparkSQL, Tsung load tester, OpenMP, MPI, OpenCL

Web: Ruby on Rails, jQuery, Twitter Bootstrap, HTML/CSS

Data Mining/Machine Learning: scikit-learn, pandas, numpy

Dev Tools: git, GitHub, gcc, gdb, valgrind, XCode, Eclipse

Operating Systems: Linux, macOS

Work Experience

SignalFx – Software Engineering Intern June 2016 – September 2016

- Created “events” for failing outgoing notifications (email and http based) to alert SignalFx and customers.
- Email Notifications: Used Memcached to store mapping of email notification ids to customer ids, then used this cache to create events for the correct customer when emails bounce.
- Http Notifications: Added a map for custom details to the general HttpRequest object, used this details map to describe the notification's original destination (i.e. Slack), finally used these details to create events for failed notifications
- Added a timestamp (based on these events) of a service's last failed notification to its integration page
- Worked with: Java, Memcached, Thrift, Amazon SES, Kafka, Javascript, Angular

Grow Mobile – Software Engineer, Founding Team October 2012 – June 2015

- Led all front-end projects for the ‘Dashboard’ web app
- Fundamentally involved in back-end projects related to: reporting, click tracking, billing, RTB, and install notifications
- Designed and implemented the Grow Mobile Campaign Creation API
- Designed and built the ‘Media Planner’, an ad-network recommendation engine
- Designed and built the ‘Intelligence Directory’, a smart directory for ad-networks integrated with Grow Mobile
- Wrote the Adobe Air Native Extension for Grow Mobile's iOS and android SDKs
- Built several internal tools; including an internal search tool and a filterable change log
- Responsible for Server-to-Server integrations with advertisers and with ad-networks for install tracking
- Worked with: Ruby on Rails, JavaScript, HTML/CSS, SQL, Objective C, and Java

Campus Leadership/Activities

Daily Pennsylvanian Spring 2011 – Spring 2012

- Staff Writer for Sports Division. Writing beats included: Men's Lacrosse, Men's Soccer, & Women's Basketball.

Phi Gamma Delta Fall 2009 – Spring 2012

- Founding Member Beta Chapter, Chairman of Intramural Sports, Judicial Chairman

University Television Fall 2009 – Fall 2011

- Anchor, Writer, & Researcher for Sports Division