

Cody A. Ray

Present Address

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Permanent Address

1726 Reyburn Creek Road
Malvern, AR 72104
(501) 337-8485

Education

B.S./M.S. in Electrical Engineering, Drexel University, Philadelphia, PA, June 2011
Undergraduate concentration in Telecommunications and Digital Signal Processing
Graduate concentration in Controls, Robotics, and Intelligent Systems, GPA 3.3

Employment

Dev-Ops Engineer, Signal Digital, Chicago, IL August 2013 – Present

- Built a scalable distributed stats infrastructure with Suro/Kafka/KairosDB
- Created and open sourced Agathon, a Cassandra cluster management tool
- Developed dependency-based haproxy configuration management system
- Automated security group mgmt, mongo migrations, polyglot build/deploy
- (Soon) Open sourced Infrastructure Manifest svc for OpenStack, Rackspace, AWS
- Built an internal reporting app for client services' use

Software Engineer, Signal Digital, Chicago, IL August 2011 – July 2013

- Lead the development of iOS and Android mobile SDKs
- Developed cross-domain javascript privacy module embedded in 200+ sites
- Created POC store-and-forward batching system (\$2500/mo/client, 2 years prod)
- Helped launch 5 APIs: OAuth, Provisioning, Stats, Search-by-Markup, SSO
- Integrated 15+ partners for server-direct real-time data collection
- Designed and built queuing and pubsub systems on Redis, replacing RabbitMQ

Research Assistant, The ACIN Center, Camden, NJ 2007 – 2009

- Investigated agent system security issues and countermeasures
- Prototyped transparent multicast communications security service
- Explored group-wise tactical edge networking using mDNS, SMF, XMPP

Leadership Activities

President, Drexel Smart House, Philadelphia, PA 2009 – 2011

- Led renovation effort to transform historic home into “living laboratory”
- Established technology incubator in collaboration with faculty, staff, and industry
- Awarded three Federal research grants totaling \$160,000 and yielding two patents
- Courted donors which later resulted in \$1.1 million donation
- Spun-off two technology companies focused on sustainable, healthy living

Academic Honors

Engineering SuperNOVA Scholar
Presidential Inauguration Panelist

Drexel University STAR Scholar
Engineering Dean Search Committee

Awarded \$120,000 in merit-based scholarships

Computer Skills

Languages: Java, Node.js, Objective-C, PHP, Python, Ruby
Datastores: Cassandra, Elasticsearch, Kafka, KairosDB, Mongo, MySQL, Redis
Software: Apache, Fabric, Git, Graphite, Puppet, Scribe, Suro, Tomcat
Libraries: Camel, Cucumber, Mockito, Flask, Guava, Guice, Jersey, Maven, Nose, Riot, RSpec, Sinatra, Storm, Trident, Vows.js, xUnit
Clouds: AWS, Deis, Heroku, OpenStack, Rackspace
Containers: Chronos, Docker, Mesos, Packer, Vagrant

Recommendations: [linkedin.com/in/codyaray](https://www.linkedin.com/in/codyaray) Code samples: github.com/codyaray