

# Cody A. Ray

## Present Address

5645 W 63rd Place  
Chicago, IL 60638  
(215) 501-7891

## 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
- (Nearly) open sourced an Infrastructure Manifest service
- 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

**Technology Director**, Philly Startup Leaders, Philadelphia, PA 2010 – 2011

- Helped lead strategic discussion for Philly startup community, like Gigabit City

## 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, Tomcat  
Libraries: Camel, Cucumber, Mockito, Flask, Guava, Guice, Jersey, Maven, Nose, Riot, RSpec, Sinatra, Storm, Trident, Vows.js, xUnit

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