Andrew McKnight

Résumé

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Education

2013 **M.Sc., Dept. of Computer Science**, *Old Dominion University*.
- Thesis track in bioinformatics, robotics, image processing and meshing research topics
- Three published papers with two conference presentations
- C++ programming TA for three semesters
- Minor in actuarial mathematics
- Co-led winning seminar group developing traffic analysis iOS app

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Experience

8 months **iOS Developer**, *Layer*, San Francisco, CA (remote).
- Rearchitected test suite to separate unit tests from integration/end-to-end tests
- Helped streamline developer environment configuration (Rake, Gems, CocoaPods and git submodules)
- Migrated old SPDY/Thrift architecture to WebSockets with rewritten Thrift specs
- Implemented new auth and transport layer using TransitionKit

1.8 years **iOS Developer**, *Twitter*, Cambridge, MA.
- Deliverables: Crashlytics/Fabric SDKs, Mac app and command line tools
- Streamlined build and release processes with TeamCity agents deployed via Chef
- Added Bitcode and tvOS compatibility to SDKs
- Standardized config of all Xcode projects and released the open source FABConfig
- Backend: distributed realtime (Storm/Heron) and batch (Cascading/Scalding) processing of incoming data, with on-call duties

3 months **iOS Developer**, *MC10*, Cambridge, MA.
- Companion iOS app for wearable peripheral with BTLE link
- Moved all app/demo code into Git repos, no previous SCM
- Architected SDK and app codebases from the ground up
- Spearheaded adoption of Agile processes for all software teams
- Set up continuous integration and deployment with TeamCity and Fabric

1.5 years **iOS Developer**, *Raizlabs*, Boston, MA.
- Care.com: service seeker/provider matching (4 months)
  - iOS 7 redesign, with perspective zoom effect for a horizontally paged scroll view
  - Dynamic UI generation from server-supplied data
- B&H Photo: e-commerce (5 months)
  - Custom parallactic scrolling of table view headers
  - Push notifications with deep linking
- UniFirst: interactive enterprise sales catalog on iPad (8 months)
  - Drag and drop editing of clothing selections, with PDF report generation
- Invaluable: realtime high-end auction platform on iPad (1 month)
  - Paging of API result display in table/collection views