Nolan Dey

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SKILLS

- Languages: Javascript, Objective-C, Python, Scala, Swift, Java, C++, Go, HTML, and CSS
- Technologies: AWS, Node, Express, React, MongoDB, PostgreSQL, Docker, Kafka, Terraform

EXPERIENCE

Capital One
Data Scientist   **Jan 2017 - Present**
- Built scalable, stream-based data pipeline to process telemetry from Android app using Docker, Terraform, Ansible, AWS (EC2, ASG, ELB, EBS, lambda, s3, Redshift, Route53), Kafka, Zookeeper, and several applications written in Scala and Python

Parabol
Full-Stack Developer Intern (Part-time)   **Jan 2017 - Present**
- Iterated on productivity web-app using Node, Express, React, Redux, RethinkDB
- Implemented features that improved usability and polish

Connected Lab
Software Engineer   **May 2016 - Aug 2016**
- Iterated upon multiple micro-services using Node, Express, React, MongoDB, Cloud Foundry
- Used node-inspector to resolve memory leaks found during load testing
- Implemented analytics API to return aggregations, breakdowns, and trends about objects
- Worked on iOS app enabling users to play music to speakers via wifi or bluetooth

Kik Interactive
iOS Developer   **Sept 2015 - Dec 2015**
- Developed a performant card stack swiping view using UICollectionView and CoreAnimation
- Implemented new network protocol using Google Protobuf with threading and error-handling
- Modified conversations list NSFetchedResultsController to support heterogeneous cells

PROJECTS

Do You Even Lift?   **Nov 2016**
- Designed EMG circuit which processes an electrical muscle signal and outputs the strength of the contraction

Bitnomics   **Sept 2016**
- Displayed real-time bitcoin transactions by feeding the output from a Coinbase API web socket into a Kafka message queue, storing them in a CockroachDB (PostgreSQL) instance, and displaying them in a Node/React app

Newsfeed Blocker for Facebook (goo.gl/ia05UZ)   **Aug 2016**
- Released Safari Extension hiding Facebook Newsfeed while allowing other Facebook features

AWARDS

- Waterloo Engineering Debate (1st) 2015
- Rotary Youth Leadership Award 2015
- Duke Of Edinburgh Gold Award 2014
- Finalist in Canada Wide Science Fair 2014
- Shad Valley Waterloo Participant 2013
- Black Belt in Shotokan Karate 2012

EDUCATION

Systems Design Engineering - University of Waterloo   **2014 - Present**
- **Courses:** Circuits, Statistics, Algorithms, Digital Computation, Human Factors in Design

Developing iOS 7 Apps for iPhone and iPad (iTunes U) - Stanford University   **2015**