

# Nolan Dey

**ndey96.github.io**  
github.com/ndey96  
ndey96@gmail.com  
linkedin.com/in/nolandey

## SKILLS

- Languages: Javascript, Python, Objective-C, Scala, Swift, Java, C++, Go, SQL, HTML, and CSS
- Technologies: AWS (EC2, S3, Redshift), Node, Docker, Terraform, Ansible, Express, React, RethinkDB, Redux, GraphQL, MongoDB, Google Protobuf, and Arduino

## EXPERIENCE

### Capital One

#### Data Scientist Intern

**Jan 2017 - Apr 2017**

- Built real-time data pipeline for mobile/web events able to handle 4800 requests/s (480 MB/s)
- Leveraged Docker, Terraform, Ansible, AWS, Kafka, Snowplow, Scala, and Python in pipeline
- Reduced mean absolute error of model to predict recurring transactions by 21.4%

### Parabol

#### Full-Stack Developer Intern (Part-time)

**Jan 2017 - Apr 2017**

- Remotely contributed to productivity web-app using Node, React, Redux, RethinkDB, GraphQL
- Implemented features that improved the user experience and added key functionality

### Connected Lab

#### Software Engineering Intern

**May 2016 - Aug 2016**

- Iterated upon microservices using Node, React, and MongoDB using pair programming
- 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 Intern

**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

### Kik Interactive

#### Release & Quality Assurance Engineer

**Jan 2015 - Apr 2015**

- Implemented feature to translate messages in iOS app using Watson Language Translation
- Wrote test suites, rigorously tested new features, and worked with developers to find issues
- Planned and facilitated user experience tests with external users to collect usability data

## PROJECTS

### Do You Even Lift?

**Nov 2016**

- Designed EMG circuit which processed an electrical muscle signal and outputted the strength of the contraction to an Arduino, using op amps, resistors, capacitors, and muscle electrodes

### Bitnomics

**Sept 2016**

- Displayed real-time bitcoin transactions by producing live transactions to a Kafka topic, consuming them into a PostgreSQL database, and displaying them in a Node/React app

## EDUCATION

### Systems Design Engineering - University of Waterloo

**2014 - 2019**

- Courses: Statistics, Algorithms, Circuits, Digital Systems, Signals, and Human Factors in Design

### Machine Learning - Stanford University (Coursera)

**2017**