

Nolan Dey

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

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

Missile Command

July 2015

- Built Space Invaders game using an Arduino, an LED matrix, logic gates, and buttons
- Solved problems involving limited pins, hardware interrupts, and slow processor speed

AWARDS

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

EDUCATION

Systems Design Engineering - University of Waterloo

2014 - Present

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