


# DAN GORELICK

ENGINEER :: DEVELOPER :: TECHNOLOGIST

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## EXPERIENCE

### Office for Creative Research – *New York, NY & Angola*

ENGINEER & FIELD TECHNOLOGIST :: FEB - MAY 2017

- **National Geographic's Okavango Wilderness Project**  
Built and deployed environmental sensors in key areas in the source lakes of the Okavango Delta in Angola. Managed environmental data collection and constructed high-resolution, 3D maps of the sites by gathering drone imagery.
- **St Louis Maproom Installation**  
Developed drawing robots for a public installation, creating a community space for 30 days. Wrote the drive-control program, coordination and guidance software, and an algorithm to find the optimal path for the robots to travel. Project was created using openFrameworks.

### Nestio – *New York, NY*

SOFTWARE ENGINEER INTERN (HACKNY FELLOW) :: MAY – SEP 2016

- Developed new features for the production site as a full-stack engineer using React / Redux and Django in a fully TDD environment.
- Expanded back-end syndication services from the NYC area to operate nation-wide by interfaced the PostgreSQL database with GIS.
- Created a settings interface for the CMS offering administrative form input controls using React and the Redux Forms library.

### New York Times – *New York, NY*

MOBILE WEB TECHNOLOGY INTERN :: JUL – SEP 2015

- Worked in a Node and CoffeeScript development environment to add new features, analytics, and A/B tests to the [mobile.nytimes.com](http://mobile.nytimes.com) site.
- Created a web tool for procedurally generating videos and GIF from NYT articles to be used in the newsroom and marketing department.

## PROJECTS

### Counterpoint Music Installation [[info](#)]

NODE, SUPERCOLLIDER, OSC :: OCT – DEC 2016

- Developed an interactive, collaborative music installation during time at SFPC which transforms lines drawn into musical note patterns.
- Installed the instrument at the SFPC Final Showcase and at the 2017 Signal Conference, also demoing the instrument during a [talk](#).

### MBTA Performance and Alerts Portal [[info](#)]

PYTHON, NODE, D3, SQLITE3, AND GTFS REALTIME :: JAN – MAY 2016

- Collaborated with the Massachusetts Bay Transportation Authority to better analyze and communicate the effectiveness of performance alerts.
- Developed full-stack web application to measure real-time performance against statistical models created from aggregated historical data.

## EDUCATION

### Boston University

SEP 2012 – MAY 2016

Bachelors of Science,  
Computer Engineering

## COMMUNITIES

### hackNY Fellowship

2016 Fellow, 2017 Mentor

### School for Poetic Computation

Fall 2016 cohort

### Bostonhacks Hackathon

Organizing team

## TECHNICAL SKILLS

#### PROGRAMMING LANGUAGES

Javascript / Node  
Python  
C / C++

#### WEB TECHNOLOGIES

React / Redux & Webpack  
Angular  
Django, Flask  
D3, Three, Pixi

#### OTHER SOFTWARE

UNIX / linux  
git workflow  
AWS services

#### HARDWARE

Microprocessors  
Machining & Fabrication  
Electronics  
CAD design

#### NEW MEDIA & DESIGN

Interaction design  
UI & UX design  
OpenFrameworks  
Processing