

# Alex Keyes

SOFTWARE ENGINEER

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*"Let him who would move the world first move himself."*

## Education

### Fordham University

New York, NY

B.S. IN COMPUTER SCIENCE, MINOR IN MUSIC

Sept. 2012 - May 2016

Focused on OOP and data structures in C++ and Python

## Software Engineering

### Merlin

New York, NY

PLATFORM LEADER

Nov. 2016 - May 2017

- Lead all technical development for Merlin's web platform as well as iOS and Android Apps
- Authored plugins in PHP and JS to create new functionality for business
- Organized all DevOps and Technical development directly under CEO
- Strategized with CEO on development roadmap for future

### e-Bit

New York, NY

CORE SOFTWARE ENGINEER

Aug. 2016 - Nov. 2016

- Implemented core features in C++ for e-Bit's proprietary blockchain, xChain
- Developed new features in Javascript for xChain Webapp, Xplorer
- Created CI for xChain using Docker
- Collaborated directly with CTO in Blockchain Development
- Authored bash scripts for unit testing

### Fordham Robotics Lab

Bronx, New York

RESEARCH TEAM MEMBER

Mar. 2014 - May. 2016

- Improved the efficiency of a Space Based Potential Field Robotics algorithm by 30% collaborating with 3 person team
- Established Server and Client protocols for mobile robots to communicate
- Presented at San Francisco SPIE Research Symposium as a Representative of the FRCV lab
- Spearheaded Fordham Kinect2 RGB-D based navigation project

## Consulting

### Web Developer

New York, New York

FREELANCE

Jul. 2012 - present

- Consulted and Created Hedge Fund portfolio site, CrescentSkyCapital.com
- Developed AveryBart.com a professional photography website
- Improving Amoshouse.org, a local charity website: Adding Donation option, Redesigned user interface, Created database of users

### Fordham IT Department

New York, New York

RESIDENT TECHNOLOGY CONSULTANT

Aug. 2013 - May 2014

- Managed IT for individual students
- Handled student + faculty technical issues: Repaired Wifi connections, Conducted Antivirus Scans, IP refreshes
- Led IT team during move-in

## Published Works and Honors

- |      |   |                                |
|------|---|--------------------------------|
| 2016 | <b>Deconstructing Drones for Developers</b> , Alex Keyes, Jonas Vautherin, Pepe Valverde, Daniel Frenzel, and Tihomir Nedev                                     | Bleeding Edge<br>Publishing    |
| 2013 | <b>Thorough exploration of complex environments with a space based potential field method</b> , Alina Kenealy, Nicholas Primiano, Alex Keyes and Damian M.Lyons | SPIE Conference<br>Volume 9406 |
| 2014 | <b>Winner</b> , Fordham Hackathon   | Bronx, New York                |

## Skills

C++, PHP, Python, Linux, Bash, Javascript, HTML, CSS