# Aleksey Levkovskyi

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## Education

- **Florida Atlantic University** — Boca Raton, FL
  *Bachelor of Science in Computer Science; Magna Cum Laude* — *Jan. 2015 – Aug. 2017*
- **New York University** — New York, NY
  *Undeclared Major* — *Sep. 2013 – Dec. 2014*

## Experience

- **TwoSense** — New York, NY
  *Algorithms Engineer* — *Jun 2017 - Present*
  - **Role**: Founding engineer. Designed context-aware algorithms that enable creating a behavioral signature model for users of mobile devices. Optimized power efficiency of background processes in CPU-intensive mobile applications.
  - **Tech**: Java, Python, C++, Git
- **Motorola Solutions** — Plantation, FL
  *Software Engineering Intern* — *Feb 2017 - Jun 2017*
  - **Role**: Co-designed and implemented algorithms that process data from complex sensor networks in a first responder setting. Wrote proof-of-concept code for portable device prototypes running embedded Android.
  - **Tech**: Java, BLE, Git
- **The SilverLogic** — Boca Raton, FL
  *Software Engineer* — *Summer and Fall 2016*
  - **Role**: Co-developed multiple iOS applications for an array of clients, including First Service Residential, MyTownDelivery, PeopleTicker and others.
  - **Tech**: Swift, Objective-C, Git
- **Aquifi** — Palo Alto, CA (remote)
  *Software Engineering Intern* — *Jan 2016 - Dec 2016*
  - **Role**: Created from scratch and deployed to AWS a web gallery for 3D models. Developed a specialized compression algorithm for stereo images of laser-scanned objects with a compression rate of up to 18%.
  - **Tech**: Python, JavaScript, C++, OpenCV, Git
- **Florida Department of Transportation** — Deerfield, FL
  *Software Engineer* — *Oct 2015 - Mar 2016*
  - **Role**: Upgraded and maintained the Sunpass road toll payment application, available on the App Store and serving thousands of users in Florida monthly.
  - **Tech**: Objective-C, SVN
- **Florida Atlantic University** — Boca Raton, FL
  *Undergraduate Researcher* — *Sep 2015 - July 2016*
  - **Author - Extended Abstract and Implementation**: Research on boolean expression optimization algorithms. Development of an educational smartphone game powered by a modified version of the Quine-McCluskey algorithm. Presented at FURC 2016 and approved by LACCEI (July 2016).
  - **Co-Author - Research Paper**: Research on Generating Academic Success through Social Media. Presented at and approved by LACCEI (July 2016).

## Projects

- **"Uniteam"**: Classmate matcher/real-time chat application for college students. Fully open source.
- **"Karnau"**: Puzzle game for mobile devices based on Karnaugh's manual method of simplifying boolean expressions.
- **"Armsy"**: Single-wave digital synthesizer powered by the STM32F4 MCU.

## Additional Work

- **Firmware Engineer**: Co-developed a patent-pending embedded device with Dr. Bassem Alhalabi at Florida Atlantic University. The device is used for helping students learn logic design theory.
- **Java Tutor**: Tutored a high school student in Java, as well as common data structures and algorithms.