# TIMOTHY GOODWIN

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## WORK EXPERIENCE

**GRAPHIQ INC.**
Santa Barbara, CA
Jun 2016 – Aug 2016

**SOFTWARE ENGINEERING INTERN**

Data visualization framework development, flux-based UI design and development of knowledge graph platform, user engagement optimization, design and development of serverless API backends on AWS.

**GOLDSMITH & CO.**
New York, NY
Sep 2015 – May 2016

**SOFTWARE DEVELOPMENT INTERN**

Full stack development of internal client management system. UI/UX design, database system development, unit and integration testing, management of product release cycles. Developed a customizable email automation service.

**COLUMBIA UNIVERSITY**
New York, NY
Jan 2016 – present

**UNDERGRADUATE RESEARCHER**, Wireless & Mobile Networking Lab

Prototyped an Android wireless receiver and feedback handler application for the Adaptive Multicast Services project, a solution for wireless multimedia content delivery in crowded venues where networks are overloaded due to a lack of wireless spectrum.

**INTEGRAL GROUP, LLC**
Los Angeles, CA
May 2014 - Jul 2014

**ENGINEERING INTERN**

Built scripts to process sunlight and climate data collected at planned project sites to model energy usage for proposed buildings. Visualized climate data onto existing architectural modeling to create graphics depicting the build plan's energy optimization strategies.

## EDUCATION

**COLUMBIA UNIVERSITY**
New York, NY
2013 - 2017

**BACHELOR OF SCIENCE,** School of Engineering & Applied Science

Computer Science degree in the Software Systems track expected May 2017.

Departmental GPA: **3.90** | Cumulative GPA: **3.67**

Honors: **Dean's List**

## SKILLS

**Languages**
Javascript, C, Python, Java, C++, PHP, OCaml, HTML5, CSS

**Technologies**
Linux, Git, Node.js, AWS, WebRTC, Angular, React, MongoDB, MySQL

## PROJECTS

**CTIS-Lambda**
Aug 2016

A highly scalable Content-to-Image service designed for AWS Lambda serverless backend, built with the PhantomJS headless browser.

**My Ad Net**
Jul 2016

A centralized application that locates, records, then visualizes every server collecting marketing data from or serving targeted ads to me in real time.

**NYC Music Mapper**
Sep 2015

A geospatial guide to the music and visual arts coverage of New York's Rare Candy Magazine.