

TIMOTHY GOODWIN

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WORK EXPERIENCE

GRAPHIQ INC.

Santa Barbara, CA
Jun 2016 – Aug 2016

SOFTWARE ENGINEERING INTERN

Data visualization framework development, React UI design and development of knowledge graph platform, user engagement optimization, design and development of backend microservice APIs 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 and 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

DATA 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

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

Technologies

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

PROJECTS

CTIS-Lambda

Aug 2016

A serverless, highly scalable image generation service designed for AWS Lambda backends, 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.