

# Gabriel Ochoa

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## Experience

### Bloomberg L.P.

New York, New York

#### Senior Software Engineer - Network Surveillance Automation

June 2018 - Present

- Designed/Implemented systems to automate network management and monitoring
- Worked alongside Network Operation Engineers on the world's largest private network
- Mentored four full-time employees and one intern
- Assisted HR in interviewing for college and senior hire positions
- Consulted on architecture design and helped enforce SDLC standards for sister teams
- Created a django library to integrate our team's apps with Bloomberg SSO and OAuth2.0 Services
- Lead Engineer on a persistent key/value store for configuration of 150k+ network devices.
  - Ingests data produced by various network teams data (~1.5 million POSTs / day, > 1TB Total)
  - Used by teams across infrastructure through GUI or API (~2 million GETs / day)

#### Software Engineer - Network Orchestration Automation

June 2016 - June 2018

- Collected and acted on design requirements from Network Design teams
- Expanded on our provisioning technology to modernize and standardize our stack
- Originated the team's use of pip and pypi to create shareable libraries
- Implemented system for collecting client-defined metrics to verify state of deployed devices
- Built dashboards to display all deployed products, versions, and locations

#### Software Engineering Intern - Vault

Summer 2015

- Researched, Tested and Implemented C++ and Java API for an Accumulo DataBase
- Used during ingestion to process over a 1 billion cloud stored xml files
- Reduced time of business report queries by a factor of 3

### Binghamton University, State University of New York

Binghamton, New York

#### Course Assistant CS140 - Programming with Objects

Fall 2013 & Spr 2014

- Assisted students with Java lab projects and assignments.
- Led class discussions and held weekly office hours

## Education

### Binghamton University, State University of New York

Binghamton, New York

#### B.S. Computer Science

Sept 2012 - May 2016

- Minor: Mathematical Sciences

## Skills

**Programming languages:** Python, C++, Java, C#, JavaScript, C, Bash, Perl  
**Frameworks & Libraries:** Django/Flask, jQuery, AngularJS, Unity, OpenGL  
**Technologies:** MySQL/Postgres/SOLite, Git, SaltStack, Jenkins, Splunk, JIRA, L<sup>A</sup>T<sub>E</sub>X  
**Certifications:** Splunk Fundamentals 1 and 2  
**Human Languages:** English (Native), Korean(Inter.), Spanish(Elem.), Mandarin Chinese (Beginner)

## Personal Projects

### Cosmos

An electronic platform for trading fake commodities contracts. C++, Sockets, GTest.

### Deceit - Best FOSS Hack

BrickHack Spring 2016

Webapp Card Game based on Dixit (the board game). Built with Python, Flask, and Reddit API.

### FriendWagon - Best Use of AWS Winner

BrickHack Spring 2015

"Uber for Road Trips". Using NodeJS, Spotify and Twilio API. Hosted on AWS.