

# Gabriel Ochoa

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## Experience

### Bloomberg L.P.

New York, New York

#### Senior Software Engineer - Network Surveillance Automation

June 2016 - Present

- Designed/Implemented systems to automate network management and monitoring
- Worked alongside Network Design and Operation Engineers on the world's largest private network
- **Factd:**
  - Lead Engineer on a persistent timeseries key/value json store
  - Used to store over 1TB of configuration and state for 150,000 network devices
  - Integrated with Bloomberg SSO and OAuth2.0 Services
  - Consumed by other Infrastructure teams ( 100k GETs / day)
  - Ingests data produced by other Network Automation teams ( 60k POSTs / day)
- **Network State Collection and Healthchecks:**
  - Designed a system for collecting current state of deployed devices
  - Clients define what metrics to collect and intents of the devices
  - States are monitored for any deviation or desync from intents
- Mentored four full-time employees and one intern
- Assisted HR in interviewing for college and senior hire positions

### Software Engineering Intern - Vault

Summer 2015

- Designed, Tested and Implemented C++ and Java API for an Accumulo DataBase
- Used during ingestion to process/query over a 1 billion cloud stored xml files

## Education

### Binghamton University, State University of New York

Binghamton, New York

#### B.S. Computer Science

Sept 2012 - May 2016

## Skills

**Programming languages:** Python, C++, Java, C, C#, Bash, Perl

**Frameworks:** Django/Flask, Unity, OpenGL

**Technologies:** MySQL/Postgres/SQLite, Git, SaltStack, Jenkins, Splunk, JIRA, L<sup>A</sup>T<sub>E</sub>X

**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.