

# Gabriel Ochoa

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## Experience

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- Bloomberg L.P.** New York, New York  
**Senior Software Engineer - Network Surveillance Automation** *June 2018 - Present*
- Lead Engineer on a fullstack persistent REST key/value store for configuration of network devices.
  - Ingests data produced by various network teams (~1.5 million POSTs & 15GB / day)
  - Used by teams across infrastructure through GUI or API (~3 million GETs / day)
  - Improved on legacy design by switching to a "Datastore As A Service" model
  - Mentored four junior SWEs and one intern
  - Implemented systems to automate network management and monitoring
  - Worked alongside Network Engineers / NetOps on the world's largest private network
  - Developed architecture design and helped enforce SDLC standards across infrastructure
  - Designed a django library to integrate our team's apps with Bloomberg SSO and OAuth2.0 Services
  - Participated in on-campus recruiting and conducted interviews for college and senior positions
- Software Engineer - Network Orchestration Automation** *June 2016 - June 2018*
- Provided front line support and acted on feature requests from Network Design teams
  - Expanded our provisioning technology to standardize our stack and consolidate duplicated code
  - Modernized team's shared libraries by introducing use of pip and pypi to create packages
  - Originated team's use of jenkins for automated testing and linting checks.
  - Created a framework to allow NetEng to alarm on failed state/config of deployed devices
  - Built dashboards to display all deployed products, versions, and locations
- Software Engineering Intern - Vault - Financial Data Management** *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  
**Teaching Assistant CS140 - Programming with Objects** *Fall 2013 & Spr 2014*
- Assisted ~150 students with Java lab assignments
  - Held weekly open office hours and 1-1 personalized tutoring
  - Topics include basic OOP and writing a GUI interpreter for assembly

## Education

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- Binghamton University, State University of New York** Binghamton, New York  
**B.S. Computer Science** *Sept 2012 - May 2016*

## Skills

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**Programming languages:** Python, C++, Java, C#, JavaScript, C, Bash, Perl  
**Frameworks / Libraries:** Django/Flask, React, Unity, OpenGL  
**Technologies:** MySQL/Postgres/SQLite, 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

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- 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.