Gabriel Ochoa

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Education

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

Skills & Interests

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

Technical Knowledge: Unity, OpenGL, Accumulo, MongoDB, GTest, LeapMotion, Git, LaTeX

Human Languages: English (Native), Korean(Inter.), Spanish(Elem.), Mandarin Chinese (Beginner)

Professional Experience

Bloomberg LP NEW YORK, NEW YORK
Software Engineer - Network Services Automation *June 2016 - Present*

- Designed/Implemented systems to automate network management and provisioning
- Worked alongside Network Design, Operations and Security Engineers
- **EditNet - Subnet Provisioning Tool**:
    - Lead Engineer on a CLI Tool and API to provision new subnets
    - Network Design teams use this to allocate all new CIDR's within Bloomberg
- **Zero Touch Provisioning Tool**:
    - Automatically finds and configures newly DHCP'ed devices
    - Datacenter Infrastructure relies on ZTP to assist in deploying new racks
- **NetMon - Network Monitoring Data Pipeline**:
    - Uses SNMP to poll all routers and switches in our network
    - Aggregates metrics and sends to splunk for use with grafana
    - Used for troubleshooting network issues by NetOps
- **Network State Collection and Healthchecks**:
    - Designed a system for collecting current state of deployed devices
    - Clients define what metrics to collect and itents of the devices
    - States are monitored for any deviation or desync from intents
- Skills: Python, Flask/Django, Buildout, SaltStack, Jenkins, Git, Bash, Perl

Software Engineering Intern - Bloomberg Vault *Summer 2015*

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

Binghamton University VESTAL, NY
Course Assistant CS140 - Programming with Objects *Fall 2013 & Spr 2014*

- Assited students with lab projects and assignments.
- Skills - Java, Git, Eclipse

Personal Projects (ordered chronologically)

Cosmos

An electronic platform for trading fake commodities contracts
C++, POSIX Sockets, GTest, Travis CI, Markdown.

Deceit - Best FOSS Hack   *BrickHack Spr16*

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

FriendWagon - Best Use of AWS Winner   *BrickHack Spr. 2015*

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