

MAX J. ESPINOZA

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EDUCATION

Rensselaer Polytechnic Institute, Troy NY

M.S. in Computer Science

GPA: 3.71

May 2016

Fairfield University, Fairfield CT

B.S. in Computer Science and Mathematics

GPA: 3.67 (*cum laude*)

May 2013

EXPERIENCE

Viasat, Inc

Software Engineer

October 2016 - Present

Boston, MA

- To facilitate data analyst in the deployment of scalable and secure AWS applications, I led a team of interns in prototyping a machine learning platform, optimized for streaming data on multi-domain models.
- Implemented scalable Tornado based web application on AWS to process and store browsing records onto S3 from hundreds of simultaneous WebSocket connections.
- Developed and integrated behavior-driven automation testing into a Jenkins CI/CD pipeline to verify AWS application scalability and aid in optimizing auto scaling policies.
- Designed and created a DevOps dashboard using Elasticsearch and Kibana to visualize and monitor service uptime and key performance indicators.
- Organized routine guided discussion aimed at improving our scrum process, which resulted in better story pointing, story writing, and team communication.

Viasat, Inc

Software Engineer Intern

May 2016 - August 2016

Quincy, MA

- In order to improve webpage load times I exercised data science techniques to extract meaningful insights about cache-busting subresources from thousands of Internet browsing records.

Rensselaer Polytechnic Institute

Lead Research Assistant

May 2014 - May 2016

Troy, NY

- To encourage the iterative process of daylighting design, I developed an online architectural sketching interface that allows users to interactively experiment with the effect of room geometry, material, and window placement on light distribution.
- To improve our sketching interface I conducted user studies on both architectural novices and professionals that resulted in the continued development of our tool.

Pitney Bowes

Software Engineer Intern

May 2015 - August 2015

Troy, NY

- Coordinated project task as Scrum Master with a remote team in Noida, India for the 64-bit release of MapInfo Professional 15.
- Implemented Coded UI test for the automated testing of new user interface features.

TECHNICAL STRENGTHS

All list are in order of most to least proficiency relative to other listed items.

Languages

Python, C++, Objective C, Javascript, PHP

Amazon Web Services

CloudFormation, VPC, ECS, S3, EFS, IAM

DevOps Tools

Elasticsearch, Kibana, Filebeat, Logstash, Jenkins, Behave, Ansible

Frameworks

LAMP with PostgreSQL, OpenGL, WebGL, MPI(IBM Blue Gene Q

Developer Tools

Git, Vim, Scrum process, Atlassian stack including Jira and Confluence