

Max Espinoza

SOFTWARE ENGINEER · COMPUTER GRAPHICS

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Education

Rensselaer Polytechnic Institute

Troy, NY

MASTERS IN COMPUTER SCIENCE

May 2016

- Graduated GPA: 3.71

Fairfield University

Fairfield, CT

BACHELOR OF SCIENCE IN COMPUTER SCIENCE AND MATHEMATICS

May 2013

- Graduated GPA: 3.67 (Cum Laude)
- Graduated with Computer Science Department Award 2013
- Pi Mu Epsilon (National Honors Mathematics Society) Member

Experience

ViaSat

Quincy, MA

SOFTWARE ENGINEER INTERN

May 2016 - Aug. 2016

- Employed data science techniques for the extraction of meaningful insight from large-scale Internet browsing data.
- Developed algorithms to improve Internet browsing performance using acquired insight.
- Received training to work with personally identifiable information.
- Utilized Git and Github-Enterprise for source control and code review.

Computer Graphics at Rensselaer Polytechnic Institute

Troy, NY

LEAD RESEARCH ASSISTANT

May 2014 - May 2016

- Led weekly meetings to organize the development, design, and implementation of research software.
- Developed an online architectural sketching interface for the improvement of user experience when creating architectural spaces for daylighting (<https://oasis.cs.rpi.edu>).
- Conducted user studies with our online architectural sketching interface and analyzed the results to further improve our tool.
- Educated in computer graphics lighting algorithms and current daylighting research.

Pitney Bowes

Troy, NY

SOFTWARE ENGINEER INTERN

May 2015 - Aug. 2015

- Coordinated project task as Scrum Master with a remote team in Noida, India for the 64-bit release of MapInfo Professional 15.
- Helped facilitate communications between local and remote teams to solve mutual problems.
- Familiarized with Agile Project Management and Atlassian Tools: including Jira, Crucible, and Confluence.
- Utilized an Integrated Building System such as Teamcity in addition to SVN for version and revision control.
- Implemented Coded UI test for the automated testing of new user interface features.

Fairfield University

Fairfield, CT

BUSINESS PLAN COMPETITOR

Feb. 2013 - May 2013

- Startup Day Winner of Fairfield University Business Plan 2013 – Awarded capital to begin development of product prototype.
- Created an iPhone application to communicate through Bluetooth channels to Arduino micro-controllers.
- Used strong communication skills to find mentors in the field of project management, engineering, manufacturing, and business.
- Developed a prototype consumer product along with a formal business plan.

University of Connecticut

Storrs, CT

NATIONAL SCIENCE FOUNDATION, BIOGRID REU FELLOW

Jun. 2012 - Aug. 2012

- Worked with motif detection software and randomized network generation algorithms for the analysis of large gene suppression networks.
- Surveyed graph randomization methods and the topologies preserved from randomly generated networks and their effects on motif detection software.
- Presented results in the 2012 REU Summer Symposium at the University of Connecticut.

Technical Strengths

Languages (Adept): C++ and Python

Languages (Proficient): JavaScript

Languages (Familiar): PHP

Frameworks: LAMP using PostgreSQL, OpenGL&WebGL, MPI(IBM Blue Gene Q)