

Christopher Martinez Servin

 cmarti397@alumni.harvard.edu •  marti397.github.io •  marti397 •  chrismartinezservin

Education

Purdue University: Bachelor of Science, Industrial Engineering May 2014
Harvard University: Master of Liberal Arts, Information Management Systems May 2017
Harvard University Extension School: Graduate Certificate, Data Science May 2017
Clemson University: Master of Engineering, Risk Engineering and System Analytics Dec 2020
Georgia Institute of Technology: Master of Science, Computer Science Expected Dec 2024

Continuing Education

Center for Chemical Process Safety: Certificate, Process Safety Boot Camp June 2020
American Institute of Chemical Engineers Academy: Certificate, PSM Overview May 2018

Programming Experience

JS MEAN Stack, ML with Python, Statistical Analysis with R, SQL & NoSQL DBs, Google Cloud Core

Awards

Harvard University: Master of Liberal Arts, Dean's List Academic Achievement Award (3.86 GPA)

Work Experience

Blue Origin: *Aerospace Systems Engineer* Feb 2023 - Present
Supported and improved the execution of the systems engineering risk, issue, and opportunity processes for the New Glenn heavy-lift orbital launch vehicle. Worked directly with engineering and program management teams to identify and manage risks, issues, and opportunities and lead mitigation strategies and burndown plans. Enabled New Glenn's successful development and operation of complex spaceflight hardware.

Risk Logic Inc.: *Senior Property Loss Prevention Consultant.* Feb 2023 - Present
Completed highly protected risk (HPR) loss control engineering surveys and performed comprehensive COPE and natural peril analyses at a wide range of high-challenge occupancies.

American International Group (AIG): *Account Risk Engineer* June 2020 - Feb 2023
Conducted holistic risk assessments of Large Limit, Middle Market, and E&S accounts that allow underwriters to better underwrite risk. The analysis assisted with the decision making to allocate capacity, buy reinsurance, and choose the correct risk appetite. The assessments included analyzing physical risks and the intricacies of exposures to the business income of our clients.

Georgia Institute of Technology: *Computer Science Student Instructor* Oct 2022 - Feb 2023
Led weekly informal computer science classroom sessions as part of the NSF-funded project "Remezcla" to help expand middle and high school students' STEM engagement and opportunities. Taught coding in python and music composition by implementing and assessing the learning curriculum on the EarSketch (<https://earsketch.gatech.edu>) platform.

American International Group (AIG): *Field Risk Engineer* Jul 2014 - May 2020
Conducted risk evaluations to identify and analyze conditions that could result in property damage and business interruption. Helped manage workplace hazards, developed safety programs, and navigated regulatory requirements in whichever industry clients operate.

RSA, The Security Division of EMC: Anti-Fraud Analyst I Jan 2013 - May 2013
Detected and analyzed online threats (phishing, pharming and the like) and acted according to RSA procedures to deploy counter measures, block and shut down the threat.

Vasc Alert: Software Engineering Intern Sept 2012 - Dec 2012
Modified the CRM software (SugarCRM) according to the specifications of the manager.

Condor Business Solutions: Software Engineering Intern May 2012 - Aug 2012
Developed a desktop application using Visual Studio and the MS Office package to automate the process of managing and collecting information for the restricted lists that the Anti Money Laundering institutions need.

Purdue University: Software Engineering Intern Aug 2011 - Dec 2011
Developed a web-based database application using MySQL and Visual Basic to store patients' records for the Engineering Projects in Community Service (EPICS) program.

Work Sample

Online Store
MongoDB, ExpressJS, NodeJS, pug/jade view
<https://glammy.herokuapp.com/>

US Presidents
Visualization with D3.js
<http://vielgi.github.io/>

Research

Predicting Epilepsy using Random Forest
ML in Python including Principal Component Analysis (PCA), LDA, LogReg, Random Forest, Support Vector Machine (SVM) & Boosting
C. Martinez, G. Nignon, M. Khamis, S. Bowley, 2016.
<https://sites.google.com/view/predictingepilepsy/home>

Why Manchester United Desperately Need a Title this Season, using R
R, T-Tests, LogReg, AIC, P-Value Permutation Test
C. Martinez, M. Campara, N. Goldberg, S. Zhao, 2015.
http://marti397.github.io/public_docs/ManU_Stats.pdf

Teaching

Purdue University: Supplemental Instruction Leader Jan 2013 - May 2013
Planned and led weekly classroom sessions of the Modern Mechanics course at Purdue University (PHYS 172) as part of the Supplemental Instruction program

Language

Fluent: English and Spanish

Purdue University: Milton in Translation Internship Sept 2011 - Dec 2011
Translated and contrasted the 17th century verse "Paradise Lost" by John Milton

Entrepreneurship

MCE Sports: Partner Aug 2012 - Jun 2015

Founded a college-recruiting agency that helps Mexican athletes obtain college scholarships in the United States

Leadership

Purdue University: *Resident Assistant*

Jul 2013 - May 2014

Facilitated the social, academic, and personal adjustment of graduate students to the residence hall and University. Enforced the rules and policies of Residence Life, Housing Services and the University. Acted as a liaison between residents and the University administration.

Delta Pi Rho Fraternity: *Recruitment Chair*

May 2011 - May 2012

Planned, organized and developed fall and spring recruitment events.

Purdue University: *Student Clerk*

Aug 2011 - Dec 2012

Focused in providing business support in the Community Center at the Purdue Village Residence Hall.