

GABRIEL A. ESPINOZA

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TECHNOLOGY AND SKILLS

- **Skills:** Python, Java, R, HTML/CSS, C,
- **Technologies:** Dash, Flask, Spark, Shiny, AWS EMR and EC2 deployment, Salesforce Administration, AutoCAD, 3D printing

EDUCATION

College of William and Mary

Major: B.S. Computer Science

Williamsburg, VA

Expected Graduation May 2021

Relevant Coursework: Applied Cybersecurity, Network Systems and Design, Computer Organization, Principals of Programming Languages, Algorithms, Software Development, Competitive Programming, Data Structures, Computational Problem Solving, Linear Algebra, Weather Climate and Change, Physical Geography

Honors: William and Mary Scholar, Wren Scholar

PROFESSIONAL EXPERIENCE

Liberty Mutual

Analytics Platform & Services Techstart Intern

Portsmouth, NH

May 2020 - August 2020

- Researched best uses and practices for users of internal applications developed by my agile team
- Created tutorials for LM's data science community in implementing Python Dash, Linear Programming Solvers, and R dashboards in AWS EMR clusters and EC2 instances
- Created solutions in automatically applying LP solvers such as GLPK and PuLP into my team's product
- Serviced and assisted team members from various market segments in implementing solutions I created

Coalesce Solutions

Salesforce Administration/Development Intern

Leesburg, VA

May 2019 – August 2019

- Responsible for implementing solutions for a variety of client organizations in Salesforce
- Helped develop simple and intuitive client sites to support community building and accessibility
- Research into different Project Management utilities and software to streamline business
- Joined conference calls with clients in order to build better relationships and understanding of specific issues
- Independently navigated through Salesforce Trailheads in order to grow knowledge on subject matter

HHMI Summer Research Fellowship

Summer Researcher

Williamsburg, VA

June 2018 – August 2018

- Explored concepts of Machine Learning with eventual goal of constructing a robot.
- Utilized the Pandas DataFrame Library, for data analysis and modeling to create graphs and tables
- Evaluated the effectiveness of different APIs such as Tensorflow and the Gym environment and explored their libraries and uses in different scenarios
- Studied effective ways of procuring and cleaning data for modeling, specifically data scaling, binning and scrubbing
- Analyzed the modeling process of machine learning by using training, validation and tests sets of data
- Modeled and designed 3D printed pieces to be attached to servos and microcontrollers
- Online journal: <http://www.cs.wm.edu/~gaespi/Journal%20Entries>

PROJECTS

WebServer

CSCI 434

Williamsburg, VA

March 2020

- Create a JAVA webserver that can receive requests through sockets
- Parse requests and deliver requested files back to sender
- Following proper HTTP and Web protocol, send responses when receiving valid and invalid requests

Grid World and Reinforcement Learning

Summer Research

Williamsburg, VA

July 2018

- Adding on and learning from already functional Grid World RL implementation created by Anson Wong
- Tested a bot's learning abilities in various environments by changing start and end states
- Used the concepts of Q-Learning to attempt to compute distances between the bot and its goal state

OTHER EXPERIENCE AND HOBBIES

- Member of the Latin American Student Union, ACM, Phi Gamma Delta (FIJI). Current Resident Assistant (RA)
- I love hiking, photography, I have a passion for the environment, and continuing to learn and better myself in all aspects of life