

COLIN REGAN

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513 Colony Drive, Hartsdale, NY 10530

EDUCATION

Northeastern University, Boston, MA

May 2022

Bachelor of Science in Computer Engineering

GPA: 3.38

Master of Engineering Management

Honors - Honors Program, Louis Stokes Alliance for Minority Participation Scholar, Galante Engineering Business Fellow

Coursework - Differential Equations and Linear Algebra, Circuits and Signals, Embedded Design, Fundamentals of Computer Science, Discrete Structures, Fundamentals of Networks, Digital Design and Computer Organization, Fundamentals of Engineering Algorithms, Fundamentals of Linear Systems, Engineering Probability and Statistics

WORK EXPERIENCE

Northeastern University College of Engineering, Boston, MA

September 2018 – Present

First Year Engineering Learning Center Assistant

- Mentor first year engineering students with engineering related assignments pertaining to C++, MATLAB, SolidWorks, AutoCAD, Arduino as well as manage and operate workshop machinery
- Developed a strong passive approach to teaching that acted as a catalyst for independent student learning leading to TA position for Cornerstone of Engineering

ARIA Cybersecurity, Lowell, MA

July 2019 – January 2020

Sales / Integration Engineer

- Wrote Python3 scripts to test potential features using a REST API framework before integration with release products.
- Acted as hardware and software point of contact for customer-facing virtual demo system
- Assisted VP of Security Product Management with demo system upkeep and troubleshooting

Northeastern University Computer Architecture Research Lab, Boston, MA

October 2017 – April 2018

Gordon Scholars Undergraduate Research Assistant on NEU Discovery Cluster

- Helped research, develop, and fabricate a fault-tolerant computer cluster system for NUCAR members
- Set up server cluster rack from scratch containing 4 hybrid nodes and 2 login nodes that could be accessed remotely
- Aided in configuration of resource packaging program 'SLURM' on all compute and login nodes in Ubuntu

TECHNICAL SKILLS

Programming: Python3, REST API, C++, Racket (BSL), Bash, JavaScript, MATLAB

Software: GitHub, GitLab, Linux/Unix (Terminal), Visual Studio, Confluence, JIRA, Basic Understanding of Jenkins, AutoCAD, SolidWorks, Arduino, Excel, Word, PowerPoint, Windows OS, Verilog, Basic Understanding of Simulink

Mechanical Skills: 3D Printer, CNC, Laser Cutter, Bandsaw, Drill Press, Soldering, Digital Multimeter, Hand Power Tools

PROJECTS

Cryptocurrency Price Converter

November 2019 – Present

- Create a Chrome Extension highlighting currencies on a webpage written in JavaScript, CSS, and HTML
- On-Click event to trigger when user clicks coin name in webpage text showing current price of a coin in cryptocurrency of user's choice
- Utilizes live cryptocurrency data from CoinMarketCap.com API for top 12 cryptocurrencies

ZedBoard Controlled Robotic Arm

January – April 2019

- Programmed an ARM/FPGA SoC development board using C++ to pick up and throw a water bottle
- Utilized Simulink to control individual servos acting as joints for a robotic arm

ACTIVITIES AND INTERESTS

Activities - Circle K (Treasurer), Real Estate Club, Black Engineering Student Society, Mixed Student Union, Disrupt FinTech Club, First Gen Low Income Student Union

Interests - Real Estate, Architecture, Stoicism, Cooking, FinTech

Volunteering - COE Service-Learning Mentor for underprivileged students interested in STEM in the greater Boston area; COE Peer Mentor for first-year engineering students; Alternative Spring Break at Saguaro National Park working with the National Park Service to manage and maintain back-country trails