Vedashrey Makthal

www.vishy.xyz

EDUCATION North Carolina State University | Sensus Reach Scholarship Recipient

B.S. Electrical Engineering B.S. Computer Engineering

May 2019 May 2019

GPA: 3.82

TECHNICAL SKILLS

Python, C, Bootstrap, Java, Ruby on Rails, C++, Node.js, Ansible, Automation

EXPERIENCE

Software Engineering Intern

May 2018-August 2018

Garmin International | Olathe, Greater Kansas City Area, Kansas |

- Worked within the Aviation division of Garmin, focusing on avionics user interfaces (UIs).
- Implemented new UI components to a future product using Python, C, and a proprietary GUI library, leading to important progress in reaching development milestones.
- Engineered a novel system for tracking the code coverage of a proprietary GUI library and runtime engine using Python and C, enabling developers to certify that UI software meets FAA standards.

Network Engineering Intern - Automation

May 2017-August 2017

Fidelity Investments | Durham, North Carolina |

- Automated the configuration for Cisco Nexus 9k Data Center Switch installation. Designed automation workflow from the ground up. Utilized Ansible and Python to develop scalable solutions. Reduced hands-on migration time from 2 hours to 20 minutes while eliminating points of error from the process.
- Enhanced an in-house-developed device tracking web app. Implemented features including
 UI augmentations (via Bootstrap and JavaScript), improvements in the search algorithm, and
 retention of historical database data.

Network Engineering Intern - Automation

May 2016-August 2016

Fidelity Investments | Durham, North Carolina |

- Developed the back-end of a vendor-independent user tracking tool. Utilized Python to aggregate data from devices in the international network. Replaced vendor-specific user tracking tools and eliminated their licensing costs.
- Conducted a Proof of Concept for the use of an automation tool (HP Operations
 Orchestration) in Disaster Recovery Drills of servers, as well as in the re-configuration of
 Access Control Lists on network devices. Provided base models of automation flows that
 could be expanded to save hours in time spent on certain network administration processes.
- Optimized a monthly count of port speed metrics across network devices with Python scripts. Reduced the time involved in the process from 4-5 hours to 10 minutes.

PROJECTS

Soccer Player Scouting Web App (Python, Flask, UI Design, Data Analysis)
Aquatic Image Recognition (Machine Learning, AWS SageMaker, Web Development)
Task Management Web App (ReactJS, Material UI, Google Firebase)

COURSEWORK

Object-Oriented Design and Development, Probability and Distribution Theory, Design of Complex Digital Systems, Introduction to Computer Networking, Embedded Systems

ACTIVITIES

Sensus Reach Scholar (Merit), Eta Kappa Nu Honor Society
IEEEXtreme Coding Competition 2015 (Team, Top 25), Organized PackHacks Hackathon
IEEE NCSU (President), App Development Club (Secretary), Sports Analytics Club