Tobias J. Schneider

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OBJECTIVE

I am a junior at Virginia Commonwealth University (VCU) seeking a software engineering internship. My main areas of interest are web/mobile app development, cybersecurity, and machine learning.

TECHNOLOGY

Languages & Frameworks: Java, C, Python, JavaScript
Tools & Libraries: Eclipse, bash, vi/vim, git (GitHub/Bitbucket), gcc, gdb, npm, Android Studio, NumPy, OpenCV, LaTeX, Sublime Text, Espresso
Markup Languages: HTML, XML, Markdown, TeX
Operating Systems: Debian-Based Linux Distributions (Debian, Ubuntu), Arch Linux, Windows, macOS

PROJECTS

fi(n)do   Built at Bitcamp Spring 2016

Worked on a team to build a "seeing eye" robot that follows the user, tells them to stop upon detecting a nearby object, snaps a picture and uses the CloudSight image recognition API to determine what the object is. It then dictates a description to the user using text to speech.

- Integrated OpenCV to detect the user's position by detecting their feet from camera input
- See more info at https://github.com/sckasturi/fi-n-do

Twitch Plays Mars Rover   Built at DCHacks 2015

Inspired by Twitch Plays Pokemon, I worked on a team to build a Twitch bot to control the movement of a robot based on text input given to the chat bot, which can be directed by multiple people simultaneously. Our team won Best Social Hack at DCHacks 2015 for this project.

- Worked on Arduino code
- Created the Twitch stream UI and configured the stream

EDUCATION

B.S. - Computer Science (graduating May 2019)   August 2015 - present
Minor in Mathematics
Virginia Commonwealth University, Richmond, VA
Notable coursework:

- Data Structures and Object Oriented Programming (CMSC 256)
- Computer Systems and Organization (CMSC 257/311)
- Differential Equations, Linear Algebra (MATH 301/310)

AWARDS

SANS Institute - CyberStart CTF   August 2017

- Placed in the top 3.4% of competitors (rank 133/3935)

Best Use of Capital One API - 2nd Place @ RamHacks 2015   September 2015

- Developed MoneyWatch, a banking app for Android to help users manage their finances, locate ATMs, receive push notifications on Pebble smart watch