

Tobias J. Schneider

(571) 327-7098

tobiasjschneider@gmail.com

github.com/tobyschneider

linkedin.com/in/tobiasjschneider

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

TECHNOLOGY *Languages & Frameworks:* Java, C, Python, JavaScript, Node.js, Arduino
Markup Languages: HTML, XML, Markdown, TeX.
Tools & Libraries: Eclipse, vi/vim, git (GitHub/Bitbucket), gcc, gdb, npm, Android Studio, NumPy, OpenCV, LaTeX, Sublime Text, JUnit, Espresso
Operating Systems: Debian-Based Linux Distributions (Debian, Ubuntu, Kali), 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> (I contributed to the repository)

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.

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

EXPERIENCE *Founder & President* December 2013 - June 2015
Falls Church HS Robotics Club, Falls Church, VA

- Planned club meetings and outreach events, recruited/trained new team members
- Started FIRST Tech Challenge team #8957, acted as team captain, programming lead and robot operator

EDUCATION *B.S. - Computer Science (graduating May 2019)* August 2015 - present
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)

Advanced Studies High School Diploma (AP Scholar) August 2011- June 2015
Falls Church High School, Falls Church, VA