

# Vikram Rao

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## Education

2015-2019 **University of Maryland, College Park, MD,**  
(exp.) *Bachelor of Science in Computer Science, 3.94/4.00 GPA.*  
Enrolled in the Advanced Cybersecurity Experience for Students (ACES) Honors College

## Relevant Coursework

- CMSC430 - Introduction to Compilers
- CMSC426 - Image Processing/Computer Vision
- CMSC351 - Algorithms
- CMSC330 - Organization of Programming Languages

## Skills

- Languages (in order of familiarity): Java, OCaml, Python, C, Bash, Fortran
- Operating Systems: Linux (Ubuntu, Debian, Kali), Mac OSX
- Miscellaneous: Wireshark, git, gdb

## Work Experience

Summer 2016 **Summer Programming Intern, Alexander Ken,** National Oceanic and Atmospheric Administration, College Park, MD.

Prototyped a framework for passing satellite image data from Java to scientific algorithms in Fortran for processing.

- Used a custom Java heap-allocated data structure for efficient native data-processing calls
- Evaluated different data flow paths for optimal efficiency

Summer 2014 **Summer Programming Intern, Dr. Charles Schwieters,** National Institutes of Health, Bethesda, MD.

Added graphical access to functions previously available exclusively through the command line in VMD-XPLOR, a globally used protein modelling program.

- Gained fluency in Tcl/Tk and python while working with production code
- Self-directed research into language concepts to complete time-sensitive projects
- Committed updates with bazaar and gained experience with logging changes

## Major Honors

- National Merit Scholarship Finalist
- University of Maryland President's Scholarship
- National AP Scholar

## Extracurriculars

2015 **Competed in hackathons: Daemon Dash, MHacks, Bitcamp.**

2015-present **Competed in CTFs including: picoCTF, National Cyber League, Metropolis, Parsons CTF 2015.**