

Nicholas Cottrell

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Objective: Highly analytical undergraduate majoring in Computer Science looking to broaden industry experience by obtaining Part-Time Employment or Internship

Education

Florida Institute of Technology, Melbourne, FL
Bachelor of Science (BS) Computer Science GPA: 3.41

Aug 2019 - May 2021

Eastern Florida State College, Melbourne, FL
Associates in Arts (AA) General Education, Dual Enrolled, GPA: 3.63

Aug 2016 - May 2019

Skills

Software: GitHub, Linux/Unix, Windows 10, Metasploit Framework, Adobe Suite, Arduino

Languages: Python, HTML, Java, Arduino, C, C++, JavaScript, Lua

Processes: Debugging, Testing

Soft Skills: Problem Solving, Time Management

Projects

OCR Sign in Parser Mar 2019 – Present

- Developed application to take data from sign in sheet, read them in OCR with Google Tesseract, then organize the given output into a CSV for use in Excel
 - Originally made in Python, later ported to Java and C++
 - Designed to allow organization of data while preventing forgery or fraud during audit

Searchsploit.py Aug 2019 – Present

- Ported Offensive Security's original Bash file to Python to allow the program to be used on Windows and enhance features the original script was lacking

Nmap IP Scanner Jun 2019 – Aug 2019

- Created IP Scanner in Python using Nmap libraries in order to possess a tool that can map an entire network and only give machine names

Experience

STEM Tech Neighborhood Academy, Melbourne, FL

Aug 2017 – Present

On-Site Project Manager

- Coordinate teams to research problems, purchase components, and construct solutions
 - *OCR Sign in Parser*
 - *Smart touch-screen mirror*

Computer Lab Technician

- Constructed and configured current computer network in place
- Disallowed file manipulation anywhere but the Downloads folder without admin password to prevent file clutter on computers
- Implemented policies to disallow running EXE applications without admin password to prevent students from installing their own software
- Configured security camera system used in the building

FIRST Robotics Competition, Melbourne, FL

Aug 2015 – May 2019

Software Developer

- Developed and Programmed robot in Java to cooperate with other robots in scoring points in varying challenges
- Programmed with OpenCV in Python on NVIDIA Jetson in order to give robots automated vision
- Produced tutorial for Git source control with Video Editing software to educate team members in using Git software

Certifications

- Microsoft Office Specialist (Excel 2013, PowerPoint 2013, Word 2013)
- Adobe Certified Associate (Photoshop, Animate, Dreamweaver)