# Shubh P. Patel

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#### **EDUCATION**

West Virginia University, Morgantown, WV

B.S. in Computer Science and Computer Engineering

Area of Emphasis in Cybersecurity

# Capstone: University Rover Challenge, WVU Chapter

August 2022 - Present

Cumulative GPA: 4.00

Anticipated Graduation: May 2023

Communications Subteam Coordinator

- Responsible for successful operations of radio equipment and operator GUI.
- Managed subteam of 15 members and ensured active involvement from each team member.
- Documented operating procedures, with tips for troubleshooting.

#### PROFESSIONAL EXPERIENCE

# 4D Tech Solutions, Fairmont, WV

May 2022 - August 2022

Engineering Intern

- Automated LiDAR performance report generation using Python to calculate metrics and output images.
- Simplified LiDAR system setup using Bash and Python scripts to automate configuration.
- Performed trade studies on sensor devices including leak detectors and Inertial Measurement Units.
- Presented achievements to Cognosante (parent company) CEO and Executive Board.

# West Virginia University, Morgantown, WV

February 2022 – May 2022

Undergraduate Research Assistant

- Developed a Python program to log and visualize data from a serial device over multiple days or weeks.
- Programmed Arduino microcontrollers to wirelessly send data from multiple sensor nodes to a base station.

## Federal Bureau of Investigation, Clarksburg, WV

June 2021 - April 2022

Honors Intern

- Planned a development approach to integrate remote analysis, via Java GOTS solution, into existing software.
- Performed trade study on software alternatives and presented findings report to superiors.

# NextGen Federal Systems, Morgantown, WV

May 2020 - August 2020

Software Development Intern

- Improved code quality using source code analysis, dependency-checking, and by writing unit tests.
- Reorganized back-end Java code for a web application.
- Developed user interface of a web application using JavaScript, HTML, and CSS.

# **TECHNICAL SKILLS**

Languages/Formats: Python, Java, C/C++, Bash, HTML, CSS, JavaScript, MATLAB, LaTeX

Experienced With: Linux, Microcontrollers, PyQt, AWS, Bootstrap, Electron, JavaFX, Maven, Gradle, 3D Printing

## **ACTIVITIES**

Institute of Electrical and Electronics Engineers (IEEE), WVU Chapter, Vice President Artificial Intelligence Club, WVU Chapter

August 2020 - Present

January 2022 - Present