

# Shubh P. Patel

(304) 906-1511 | shubhp18@gmail.com | shubhpatel18.github.io | linkedin.com/in/shubh-p-patel/

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## EDUCATION

**West Virginia University**, Morgantown, WV

*Bachelor of Science in Computer Science*

*Bachelor of Science in Computer Engineering*

*Area of Emphasis in Cybersecurity*

**WVU Honors Foundation**

Anticipated Graduation: May 2023

Cumulative GPA: 4.00

## TECHNICAL SKILLS

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

**Experienced With:** Linux, Microcontrollers, AWS, Bootstrap, Qt, JavaFX, Electron, Maven, Gradle

## PROFESSIONAL EXPERIENCE

**4D Tech Solutions**, Fairmont, WV

May 2022 – Present

*Engineering Intern*

- Automating generation of LiDAR system Conformance Certificates to eliminate 6-hour recurring task. Includes automatic generation of images and performance metrics from LiDAR point cloud data.
- Calculated light attenuation coefficients of local waters to predict LiDAR performance in deep sea environments.

**West Virginia University**, Morgantown, WV

February 2022 – May 2022

*Undergraduate Research Assistant*

- Developed a robust Python program for logging and visualizing data received via serial communication.
- Programmed Arduino-based base station and remote sensor devices to transmit data via Bluetooth Low Energy.
- Automated data collection to better inform sensor design decisions and accelerate development.

**Federal Bureau of Investigation**, Clarksburg, WV

June 2021 – April 2022

*Honors Intern*

- Planned a development approach to integrate remote analysis, via a Java API, into an existing software architecture, to provide new proof-of-concept analysis capabilities to government customer entities.
- Researched software alternatives and presented findings in report form 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.

## ACTIVITIES

**Institute of Electrical and Electronics Engineers (IEEE)**, WVU Chapter

August 2020 – Present

*Vice President*

- Organized DIY Macro Pad workshop and taught 20 fellow students how to solder.

**Artificial Intelligence Club**, WVU Chapter

January 2022 – Present

- Learn about machine learning and artificial intelligence from Python workshops.

## Certifications

**OSHA 10 Hour Outreach Training Program - General Industry**

May 2022