

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

Graduated: May 2023
Cumulative GPA: 4.00

Capstone: University Rover Challenge, WVU Chapter
Autonomous Navigation Lead, Communications Systems Lead

August 2022 – May 2023

- Earned 1st place in international University Rover Challenge competition.
- Developed autonomous system for rover capable of identifying and driving up to AR tags in unknown terrain.
- Selected and tested radio equipment and lead development of operator GUI.

PROFESSIONAL EXPERIENCE

4D Tech Solutions, Fairmont, WV
Engineering Intern

May 2022 – August 2022

- 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
Undergraduate Research Assistant

February 2022 – May 2022

- 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
Honors Intern

June 2021 – April 2022

- 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
Software Development Intern

May 2020 – August 2020

- 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, ROS, Robotics

ACTIVITIES

Institute of Electrical and Electronics Engineers (IEEE), WVU Chapter, Vice President August 2020 – January 2023
Artificial Intelligence Club, West Virginia University January 2022 – May 2023