Shubh P. Patel

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EDUCATION

West Virginia University, Morgantown, WV   Anticipated Graduation: May 2023
B.S. in Computer Science and Computer Engineering   Cumulative GPA: 4.00
Area of Emphasis in Cybersecurity

Capstone: University Rover Challenge, WVU Chapter   August 2022 – Present
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   August 2020 – Present
Artificial Intelligence Club, WVU Chapter   January 2022 – Present