Shubh P. Patel

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EDUCATION

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

WVU Honors Foundation

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 Java GOTS solution, into an existing software architecture, to provide new proof-of-concept analysis capabilities to government customer entities.
- Researched software alternatives and presented findings reports 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