

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

Anticipated Graduation: May 2023

Cumulative GPA: 4.00

WVU Honors Foundation

TECHNICAL SKILLS

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

Experienced With: Linux, Microcontrollers, Qt, AWS, Bootstrap, 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 calculation of performance metrics from millions of GPS points.
- Measured 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.

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

Lean Six Sigma Yellow Belt

July 2022