

# Rishan Biju

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## Education

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Virginia Tech

Blacksburg, VA

Intended Bachelor of Science in Computer Science

Expected Graduation Date: May 2027

- GPA: 3.75

## Relevant Coursework

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- Software Design and Data Structures
- Intro to Software Design

## Technical Skills

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- **Languages:** Python, Java, JavaScript
- **Tools:** React, Firebase, Flask, Node, Express, Redis, PostgreSQL
- **Frameworks:** Agile Software Development, SCRUM, Selenium, Linux, Object-Oriented Design, Bootstrap, and Git

## Technical Experience

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Hume Center

Jan 2024 - Present

Undergraduate Researcher

Blacksburg, VA

- Creating **Python** scripts to extract data on companies affected by ransomware attacks from dark web sources

Spanalytics

June 2023 - August 2023

Software Engineer Intern

Glen Allen, VA

- Developed secure backend endpoints using **Express.js**, enabling seamless retrieval of user files
- Utilized **JavaScript** to enhance user experience by efficiently fetching data from backend endpoints, ensuring optimal performance
- Managed **Redis** database server, maintaining compatibility with PANalyzr software by accurately storing and promptly retrieving version numbers for user inputs
- Optimized front-end data validation by cross-referencing user inputs with Redis data, achieving accurate results and enabling swift user interactions, leading to a **50% reduction** in compatibility-check latency

Spanalytics

June 2022 - August 2022

Cybersecurity Intern

Glen Allen, VA

- Conducted penetration testing on a variety of network devices, including routers and switches, using Linux-based tools such as **Nmap**
- Validated the functionality of network devices by using **Wireshark** to analyze network traffic and configure data onto a spreadsheet, resulting in a **15% reduction** in network downtime

## Projects

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Novus | *Flask, React, PostgreSQL, Selenium, Bootstrap*

May 2023 - August 2023

- Built a full-stack stock market analysis app enabling users to get automated news alerts using **Selenium**
- Developed an interactive AI bot using ChatGPT through the **OpenAPI** platform, providing personalized stock market advice and dynamic user interactions

COVID Data Analyzer | *React, Firebase, Bootstrap*

January 2023 - April 2023

- Developed a **React-based** COVID data web app, empowering users to access and visualize state-specific COVID data via widgets and used Firebase to implement two-factor authentication
- Utilized WHO Covid Rest API, effectively visualizing data trends using APEX Charts
- Integrated **AWS SNS** for real-time SMS notifications, delivering the latest COVID data insights directly to users
- Received **scholarship** from school board for project impact and design **out of 19 students**