

Rishan Biju

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Education

Virginia Tech	Blacksburg, VA
Bachelor of Science in Computer Science	Expected Graduation Date: December 2026
<ul style="list-style-type: none">• GPA: 3.88• Relevant Coursework: Software Design and Data Structures, Intro to Software Design	

Technical Skills

- **Languages:** Python, Java, JavaScript
- **Developer Tools:** GitHub, Git, Jupyter Notebook, Postman
- **Technologies:** FastAPI, Flask, Express.js, Node.js, React.js, AWS (Lambda, SNS), MongoDB, Firebase, Redis, PostgreSQL, Pandas, Selenium, Playwright, Tailwind, Bootstrap

Technical Experience

Hume Center	Jan 2024 - Present
Undergraduate Researcher	Blacksburg, VA
<ul style="list-style-type: none">• Created Python scripts to extract data on companies affected by ransomware attacks from dark web sources• Leveraged Pandas to analyze file extensions commonly found on Dark web platforms, facilitating a detailed categorization and breakdown of their prevalence.	
Spanalytics	June 2023 - August 2023
Software Engineer Intern	Glen Allen, VA
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• 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

Novus <i>Flask, React.js, PostgreSQL, Selenium, Bootstrap</i>	May 2023 - August 2023
<ul style="list-style-type: none">• 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 <i>React.js, Firebase, Bootstrap</i>	January 2023 - April 2023
<ul style="list-style-type: none">• 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	