

# Rishan Biju

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## Education

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

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

## Technical Experience

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<b>Hume Center</b> <b>Undergraduate Researcher</b> <ul style="list-style-type: none"><li>• Created <b>Python</b> scripts to extract data on companies affected by ransomware attacks from dark web sources</li><li>• Leveraged <b>Pandas</b> to analyze file extensions commonly found on Dark web platforms, facilitating a detailed categorization and breakdown of their prevalence</li></ul>	Jan 2024 - Present Blacksburg, VA
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<b>Spanalytics</b> <b>Software Engineer Intern</b> <ul style="list-style-type: none"><li>• Developed secure backend endpoints using <b>Express.js</b>, enabling seamless retrieval of user files</li><li>• Utilized <b>JavaScript</b> to enhance user experience by efficiently fetching data from backend endpoints, ensuring optimal performance</li><li>• Managed <b>Redis</b> database server, maintaining compatibility with PANalyzr software by accurately storing and promptly retrieving version numbers for user inputs</li><li>• Optimized front-end data validation by cross-referencing user inputs with Redis data, achieving accurate results and enabling swift user interactions, leading to a <b>50% reduction</b> in compatibility-check latency</li></ul>	June 2023 - August 2023 Glen Allen, VA
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<b>Spanalytics</b> <b>Cybersecurity Intern</b> <ul style="list-style-type: none"><li>• Conducted penetration testing on a variety of network devices, including routers and switches, using Linux-based tools such as <b>Nmap</b></li><li>• Validated the functionality of network devices by using <b>Wireshark</b> to analyze network traffic and configure data onto a spreadsheet, resulting in a <b>15% reduction</b> in network downtime</li></ul>	June 2022 - August 2022 Glen Allen, VA
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## Projects

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<b>Novus</b>   <i>Flask, React.js, PostgreSQL, Selenium, Bootstrap</i> <ul style="list-style-type: none"><li>• Built a full-stack stock market analysis app enabling users to get automated news alerts using <b>Selenium</b></li><li>• Developed an interactive AI bot using ChatGPT through the <b>OpenAPI</b> platform, providing personalized stock market advice and dynamic user interactions</li></ul>	May 2023 - August 2023
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<b>COVID Data Analyzer</b>   <i>React.js, Firebase, Bootstrap</i> <ul style="list-style-type: none"><li>• Developed a <b>React-based</b> COVID data web app, empowering users to access and visualize state-specific COVID data via widgets and used Firebase to implement two-factor authentication</li><li>• Utilized WHO Covid Rest API, effectively visualizing data trends using APEX Charts</li><li>• Integrated <b>AWS SNS</b> for real-time SMS notifications, delivering the latest COVID data insights directly to users</li><li>• Received <b>scholarship</b> from school board for project impact and design <b>out of 19 students</b></li></ul>	January 2023 - April 2023
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