

# Rishan Biju

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## Education

<b>Virginia Tech</b>	Blacksburg, VA
<b>Bachelor of Science in Computer Science</b>	<b>Expected Graduation Date: December 2026</b>
<ul style="list-style-type: none"><li>• <b>GPA:</b> 3.88</li><li>• <b>Relevant Coursework:</b> Data Structures and Algorithms, Discrete Math, Computer Organization 1</li></ul>	

## Technical Skills

- **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, Playwright, Selenium, Tailwind, Bootstrap

## Technical Experience

<b>Virginia Tech</b>	January 2024 - Present
<b>Undergraduate Researcher</b>	Blacksburg, VA
<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><li>• Automating Software Engineering tasks by developing a Test Driven Development-based unit test generator using <b>OpenAI</b>, <b>Python</b>, and <b>Pandas</b></li></ul>	

<b>Spanalytics</b>	June 2023 - August 2023
<b>Software Engineer Intern</b>	Glen Allen, VA
<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>	

<b>Spanalytics</b>	June 2022 - August 2022
<b>Cybersecurity Intern</b>	Glen Allen, VA
<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>	

## Projects

<b>SmartCite</b>   <i>Next.js, TypeScript, MongoDB, Docker, Playwright, Tailwind</i>	June 2024 - Present
<ul style="list-style-type: none"><li>• Developing a Chrome Extension using <b>Next.js</b> to enable users to enter any website URL to receive a 5-sentence summary, citation of their preferred style, and related articles</li><li>• Implemented personalized summaries using <b>Hugging Face LLM</b> and utilized <b>Playwright</b> to scrape text for over <b>100+</b> websites and generate accurate summaries/citations tailored to users</li><li>• Built a robust authentication system utilizing <b>JWT</b>, <b>Google OAuth 2.0</b>, and <b>MongoDB</b> to generate new JWT tokens for authorization and storing user credentials</li><li>• Containerized application using <b>Docker</b> to seamlessly deploy code to production</li></ul>	

<b>COVID Data Analyzer</b>   <i>React.js, Firebase, Bootstrap</i>	January 2023 - April 2023
<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>	