

Rishan Biju

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Education

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| 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

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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, Playwright, Selenium, Tailwind, Bootstrap

Technical Experience

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| Hume Center at Virginia Tech | 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 | |

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| 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 | |

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| 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

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

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| 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 | |