Rishan Biju

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Education

Virginia Tech   Blacksburg, VA
Bachelor of Science in Computer Science   **Expected Graduation Date: December 2026**
- **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, Next.js, React.js, TypeScript, Docker, AWS (SNS), MongoDB, Firebase, Redis, PostgreSQL, Pandas, Selenium, Tailwind, Bootstrap

Technical Experience

Hume Center at Virginia Tech   Jan 2024 - Present
Undergraduate Researcher   Blacksburg, VA
- 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
- 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

Novus | *Flask, React.js, 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 **OpenAI** platform, providing personalized stock market advice and dynamic user interactions

COVID Data Analyzer | *React.js, 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**