

# Varun Srinivasarao Budati

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## EDUCATION

<b>Virginia Tech</b> , Blacksburg, Virginia	Aug 2023 – Present
Bachelor of Science in Computer Science + Minor in Mathematics & Finance	
<b>IES Bhavans</b> , Jleeb Al-Shuyoukh, Kuwait	Jan 2010 – May 2023
Senior School Certificate Examination in Computer Science	GPA: 91.2/100
Secondary School Examination in Information Technology	GPA: 94.3/100

## WORK EXPERIENCE

<b>Research Assistant</b> , REACH Lab - Virginia Tech, Blacksburg, Virginia	March 2024 – Present
<ul style="list-style-type: none"><li>Conducted an extensive literature review under the leadership of Dr. Ihudiya Finda Williams, on a focused project on Rural Computer Science Education.</li><li>Synthesized over 30+ articles and papers across libraries in computing, education in reparation of \$500,000 National Science Foundation grant.</li><li>Trained 6 research assistants on different methods of searching through databases and provided tools and methodologies for prompt queries.</li></ul>	
<b>Web Developer, Intern</b> , The Amricani Cultural Centre, Kuwait City, Kuwait	June 2021 – September 2021
<ul style="list-style-type: none"><li>Designed and created 5 interactive web-pages for young museum visitors, featuring sequential exhibit zones with QR codes for historical information about Kuwait.</li><li>Developed 8 puzzles and games using cardboard pieces and silhouettes.</li><li>Designed 3 interactive tools like query boards/trivia questions to enhance children's learning of Kuwait and Al-Sabah exhibit history.</li></ul>	

## PROJECT WORK

<b>Options Pricing Calculator &amp; Graph Using the Black-Scholes Model</b>	June 2024 – July 2024
<ul style="list-style-type: none"><li>Calculated call and put option prices along with Greek metrics to assess option price sensitivity.</li><li>Implemented an implied volatility estimator using the Newton-Raphson method.</li><li>Enhanced data analysis efficiency by 30% through utilizing Pandas for structured data display and Matplotlib for visualizing implied volatility against strike prices, leading to more informed decision-making.</li></ul>	
<b>Messaging App</b>	June 2022 – September 2022
<ul style="list-style-type: none"><li>Led and developed a program using Python and SQL that provides results for addition, deletion, and searching a message for input from the user.</li></ul>	
<b>Cyber Security Project</b>	May 2022
<ul style="list-style-type: none"><li>Delivered presentations and talks on the importance of cybersecurity in daily life to schools across the Middle East and India as part of a top 18 group in a regional competition.</li></ul>	

## CORE SKILLS

**Programming languages:** Python, Java, SQL, and Matlab.

**Languages:** English, Hindi, Telugu, Sanskrit.

## AWARDS

Declared Winner of Brick Math Olympiad, Kuwait

Awarded Distinction in National Math Olympiad, Kuwait