

SPARSH GUPTA

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CAREER OBJECTIVE

A dynamic, energetic, and fast learning computer science senior at Virginia Tech seeking an opportunity to learn and develop as a professional with a goal to work in the data science and software development field. With skills in modern programming languages and data analysis techniques, looking for a job to apply my theoretical knowledge, analytical skills and enthusiasm, gaining work experience and learnings in return.

SKILLS

Technical Skills: Adobe XD, Balsamiq, C, C++, CSS, Coral Draw, Google Suite, Haskell, HTML, Java, JavaScript, Linux, MATLAB, Microsoft Office, Microsoft Azure, Power BI, Prolog, Python, React, Scala, SQL, Tableau.

Soft Skills: Accuracy and attention to detail, Adaptability and flexibility, Organization and prioritization, Time management and strong work ethic, Problem solving and critical thinking, Communication and Teamwork.

EDUCATION

[VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY](#) | [VIRGINIA, USA](#) | [COLLEGE OF ENGINEERING](#) | [CLASS OF 2023](#)

Cumulative GPA: 3.77

Major: Computer Science

Minor: Mathematics

Degree: Bachelor of Science

RELEVANT EXPERIENCE & SCHOOL WORK

[FRONT END WEB DEVELOPMENT](#) | [REACT PROJECT](#) | [VIRGINIA TECH, VIRGINIA, USA](#) | [AUG'22 – DEC'22](#)

- Developed a functional website using HTML, CSS, and JavaScript as a React project.
- Implemented a user-friendly interface that allowed users to enter and manipulate X-Y values in a table and view the resulting data in various types of visualizations, including bar graphs, line plots, scatter plots, and histograms.
- Improved the website's user experience by adding features such as cut, copy, and paste to easily manipulate row entries.

[DATA ANALYSIS AND VISUALIZATION INTERNSHIP](#) | [STAQO WORLD, NEW YORK, USA](#) | [JUN'22 – AUG'22](#)

- Gathered the company's sales dataset for the years 2016-2022, and cleaned and processed it by running queries in Microsoft Power BI, adding new mathematical calculation-based columns for business analysis.
- Gathered the visualization requirements of the company's strategic decision-making department and developed interactive dashboards using Power BI to compare and demonstrate the company's product sales growth in the USA, Spain, and India.
- Reported the results of the analysis and demonstrated the dashboard operations to my clients via a Zoom presentation.

[EXTERNAL SORTING USING HEAP SORT](#) | [JAVA PROJECT](#) | [VIRGINIA TECH](#) | [MAR'22 – APR'22](#)

- Developed a JAVA program that implemented an external sorting algorithm for binary data using Max Heap Sort.
- Improved the efficiency of the application by using a buffer pool and a Least Recently Used (LRU) replacement scheme to mediate access to the input file.

[DNA TREE](#) | [JAVA PROJECT](#) | [VIRGINIA TECH](#) | [FEB'22 – MAR'22](#)

- Developed a JAVA program that performed a range of operations on DNA sequences, including insert, remove, print, and search.
- Stored the DNA sequences in a Tree data structure to enable efficient performance of these operations.

[BIG NUM ARITHMETIC](#) | [JAVA PROJECT](#) | [VIRGINIA TECH](#) | [JAN'22 – FEB'22](#)

- Developed a JAVA program that performed infinite precision arithmetic on non-negative integers.
- Implemented a program that read and processed mathematical expressions in Reverse Polish Notation format, storing large integers as Linked Lists and using Stacks (Last in - First out) to compute the results.

[MATH INSTRUCTOR](#) | [MATH EMPORIUM, VIRGINIA TECH](#) | [AUG'21 - JAN'22 and JAN'23 - Present](#)

- Worked as a math instructor at VT Math Emporium, teaching Business Calculus, Elementary Calculus I and II, Linear Algebra, and Precalculus to students at the freshman, sophomore, junior, and senior levels.
- Developed an ability to analyze problems, think of solutions, and teach students thus improving communication skills.

COLLEGE EXTRA MILES

[WEST END MARKET](#) | [VIRGINIA TECH](#) | [NOV'19 – MAY'21](#)

- Student employee at a dining hall at Virginia Tech, responsible for food preparation and managing line operations.
- Developed a strong work ethic and management skills as a result of meeting strict deadlines and anticipating future needs.

[VIRGINIA TECH JUNOON](#) | [VIRGINIA TECH](#) | [SEP'19 – JAN'21](#)

- Participated in dance competitions across the US as an active member of VT's Bollywood fusion dance team.
- Demonstrated strong teamwork, responsibility, team coordination, and time management skills.