

SRIVINAY TUMMARAKOTA

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EDUCATION

Bachelor of Science in Computer Science, Rice University, Houston, TX May 2023
GPA: 3.95

Relevant Coursework: *Algorithmic Thinking, Probability and Statistics for Data Science, Computational Thinking, Fundamentals of Computer Engineering, Ordinary Differential Equations and Linear Algebra*

Illinois Mathematics and Science Academy, Aurora, IL June 2019
GPA: 3.98

Relevant Coursework: *Computer Science Inquiry, Object-Oriented Programming, Abstract Algebra, BC Calculus, Multivariable Calculus*

SKILLS

- Programming Languages: C++, Python, Java, HTML5, CSS3, JavaScript ES6, SQL
- Software & Frameworks: Power BI, LaTeX, jQuery, Node.js
- Spanish Proficient

WORK EXPERIENCE

Rice University Climate, Water, and Energy Lab, Houston, TX May 2020 – July 2020
Research Intern

- Collaborated in a team of software engineers to develop a Python Graphical User Interface (GUI) for climate modeling scripts written in Fortran, Python, and R
- Enabled the GUI to visualize climate model data using Python data analytics libraries

Caterpillar Inc, Peoria, IL June 2018 – August 2018
Data Analytics Intern, Service Information System Team, CAT Digital

- Developed dashboards to analyze user traffic through Caterpillar websites using Microsoft Power BI
- Provided Caterpillar teams with data-driven insights to increase the effectiveness of Caterpillar's Service Information System user-interface

Fermi National Accelerator Laboratory, Batavia, IL August 2017 – May 2019
Research Intern

- Conducted research exploring the nature of fundamental particles in the universe as part of the first-ever high school collaboration with CERN and Fermilab
- Developed a statistical analysis tool in C++ to analyze particle collision data

EXTRACURRICULAR AND LEADERSHIP EXPERIENCE

Rice University COVID-19 Virtual Design Challenge, Houston, TX April 2020
First-Place Team

- Developed a prototype of a website that connects homeless shelters with donors to alleviate food insecurity among vulnerable populations during the COVID-19 pandemic

Rice Data Science Club, Houston, TX August 2019 – January 2020
Data Education and Exploration Project Team

- Conducted a semester-long data analysis of Houston crime data using Python data analytics libraries

Rice Datathon

- Developed an artificial neural network and logistic regression model to predict divorce rates based on comprehensive marriage survey data using Python data analytics libraries

Illinois Mathematics and Science Academy Student Council, Aurora, IL October 2016 – May 2019
Sophomore Representative (2016-2017), Junior Representative (2017-2018), President (2018-2019)

- Represented the IMSA Student Body and worked with school administrators to develop and advocate for initiatives such as a Sibling Program, Course Evaluation Guide, Quality of Life Survey, and Mental Health Initiative Week.

AWARDS/CERTIFICATES

- Rice University COVID-19 Virtual Design Challenge First Place April 2020
- National Merit Finalist May 2019
- United States of America Computing Olympiad Silver Rank May 2018