

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*

SKILLS

- Languages: Python, C++, JavaScript, Java, HTML, CSS, SQL
- Frameworks: React.js, Node.js, MongoDB, Keras, GraphQL, jQuery, Bootstrap, Power BI, LaTeX

WORK EXPERIENCE

Data Science and Software Engineering Fellow at Coding it Forward

Oct 2020 – Dec 2020

Civic Digital Fellowship | Bethesda, MD

- Will work with the National Institutes of Health to analyze gaps, trends, and disparities in multi-omics data from public databases

Research Intern at Rice University

May 2020 – July 2020

Rice University Climate, Water, and Energy Lab | Houston, TX

- Collaborated in a team of researchers 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

Research Intern at Fermi National Accelerator Laboratory

Aug 2017 – May 2019

Student Inquiry and Research Program | Batavia, IL

- Developed a Bayesian statistical analysis tool in C++ to analyze particle collision data

Data Analytics Intern at Caterpillar Inc

Jun 2018 – Aug 2018

Service Information System Team, CAT Digital | Peoria, IL

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

PROJECT EXPERIENCE

RiceApps Front-End Web Developer

Sep 2020 - Present

- Utilizing React.js and GraphQL to construct the user-interface of a web application that facilitates campus restaurants' ability to process orders and deliver items directly to students

Image Classification Using CIFAR-10 Dataset

Aug 2020

- Created a multilayer perception neural network using Python's Keras library to classify images from the CIFAR-10 dataset
- Evaluated the performance of distinct neural networks using TensorBoard visualizations

London App Brewery Web Development Bootcamp

Jul 2020 – Aug 2020

- Developed several projects including a user-interface for a virtual assignment notebook made with React.js and a blogging website which relied on a Node.js back-end and MongoDB database to store blog posts

Rice University COVID-19 Virtual Design Challenge

Apr 2020

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

Predicting Occurrence of Divorce using Machine Learning – Rice Datathon

Jan 2020

- Developed an artificial neural network using Python's Keras library to predict divorce rates based on comprehensive marriage survey data

AWARDS/CERTIFICATES

- The London App Brewery's Complete 2020 Web Development Bootcamp

Sep 2020

- Rice University COVID-19 Virtual Design Challenge First Place

Apr 2020