

# Gavin Galusha

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## Summary

Hello, My name is Gavin Galusha, and I am currently a 21-year-old senior at Tulane University, with a few years of Software Engineering internship experiences on my belt, but a growing passion to learn more and build new projects. I am Majoring in Computer Science and Mathematics, and pursuing a Masters's degree in Computer Science. Relevant Computer Science classes include Data Structures and Algorithms, Computer Systems, Databases, Natural Language Processing, Deep Learning, and more. Relevant Math Coursework: Vector Calculus, Linear Algebra, Discrete Math, Statistical Inference, Probability, Complex Analysis.

## Projects

### *AI Advisor | NLP*

- Employed Retrieval Augmented Generation system from the ground up in combination with web scraping and LLM integration to create a Tulane-specific academic advisor chatbot with a web interface in Flask, containerized with Docker and deployed on Heroku, utilized PostgreSQL for data storage. <https://advisor2-d49f8063f5fb.herokuapp.com/>

### *MVP Prediction Model | Data Science*

- Created NBA MVP Prediction Model using Python, Pandas, Matplotlib, scikit-learn, with Random Forest classifier to achieve over 85% of 2022 MVP candidates. [https://github.com/GavinGalusha/MVP\\_Model2](https://github.com/GavinGalusha/MVP_Model2)

## Experience

### **PromoterMotor**

Remote

#### *Software Engineering Internship 2.B*

May 2024 - September 2024

- Leveraged Google Apps Scripts to build business workflows.
- Used perplexity API and web scraping to develop an automated LinkedIn outreach script, saving 3+ hours of weekly work.
- Collaborated with a team to revamp the company website using WordPress, JavaScript, HTML, and CSS, boosting user engagement.

### **Center for Societal Aspiration**

Remote

#### *Software Engineering Intern*

January 2024 - May 2024

- Leveraged HTML/CSS and Javascript in collaboration with Wix Studio to improve website, increasing user-interaction by over 50%.
- Established software tools for Humano Maximus project, using technologies like GitHub, Docker, New Relic, etc.
- Created Technology roadmap, Tech Stack, and Engineering team Organization for project.

### **Tulane Material Science Research Project**

New Orleans, LA

#### *Research Assistant*

March 2023 - May 2024

- Documented all SurfEP source code for readability, the heart of the prediction algorithm used in the web interface.
- Used Python Streamlit module to develop web interface for models to predict surface energy absorption in alloys.

### **CodeCycle**

Berkeley, CA

#### *Internship*

May 2023 - September 2023

- Developed Python script for parsing IFC files to generate 3d representations of buildings.
- Increased site efficiency through automation with JSON files describing layouts.

### **Integem**

Larkspur, CA

#### *Site Director of Coding Camp*

June 2023 - August 2023

- Head in charge of Integem Larkspur location Augmented Reality/Programming summer camp.
- Taught K-12 graders Python programming with associated modules, and iCreator Augmented reality game development in a classroom learning environment.
- Managed 100+ students, a team of 4-6 teacher, and all camp operations.

### **Thompson Welch Soroko & Gilbert Law Firm**

San Rafael, CA

#### *Office IT Support*

April 2020 - August 2020

- Main responsibilities were office technology rearrangements, specifically disassembling and reassembling computers, fixing network issues, and setting technology at work stations.

### **Tulane**

New Orleans

#### *Tulane Involvement (Tutor, TA, Clubs)*

August 2024 - Present

- **Tutor** for Calculus classes, MATH 1160 MATH 1120, tutoring 5+ hours a week on a weekly basis.

- **TA** for INTD 1280, holding 4 hours of office hours a week to help students with coding assignments.
- **Executive club member**, helped orchestrate Future Minds of AI club meetings and set up the annual competition for best undergrad AI project, resulting in \$1000 prize money.

**Education**

**Tulane University**  
*Double Majoring Computer Science and Mathematics*

- 3.7 GPA, 4.0 in Computer Science Courses. Deans list 2022-2024.

New Orleans  
June 2021 - May 2025

**NVIDIA**  
*Fundamentals of Deep Learning Certificate*

New Orleans  
March 2024

**General Assembly**  
*General Assembly 12-week Bootcamp, Data Science*

Remote  
August 2023

**Skills**

Python

Java

JavaScript

SQL

scikit-Learn

Tensorflow

Keras

Pytorch

HTML

CSS

Git