

# Serene Plummer

## Data Scientist / Analyst

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LinkedIn: <https://www.linkedin.com/in/sereneplummer/> | GitHub: <https://github.com/serene4444>

Portfolio: <https://serene4444.github.io/SereneP.-Portfolio/>

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### CAREER PROFILE

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**Detail-oriented Computer Science student** with hands-on experience in Python, C++, full-stack development, data analysis, and machine learning. Seeking a Data Scientist internship to apply technical skills to real-world problems. Quick to adapt, take initiative, and learn new technologies.

### EDUCATION

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*University of North Texas* | Denton, TX

**Bachelor of Science | Computer Science** (Expected May 2028)

- GPA: 3.8

**Relevant Coursework:** Data Structures & Algorithms, Software Engineering Practices, Database Systems

### TECHNICAL SKILLS

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**Languages:** Python, SQL, C++, HTML/CSS, JavaScript

**Tools & Frameworks:** Github, Visual Studio, Jupyter, Microsoft Office, Figma

**Libraries:** Pandas, Matplotlib, Scikit-learn, Plotly, Dash, Folium Lab, React

**Concepts:** Data Cleaning, Visualization, Machine Learning, Debugging, Version Control

### PROJECTS

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**Stock Prices and Analysis** | May 2025

- Achieved 88% prediction accuracy and reduced mean absolute error by 12% through hyperparameter tuning and model validation.
- Cleaned, engineered, and visualized stock data using Pandas and Matplotlib to evaluate model performance with RMSE and MAE metrics.

**Applied Data Science Capstone** | July 2025

- Demonstrated proficiency in data science and machine learning using a real-world dataset.
- Implemented SVM, Decision Tree, and k-NN classifiers in Python.

**Health Cert – Medical Appointment Booking Website** | Aug 2025

- Developed a responsive front-end web application, HealthCert, modeled after real medical platforms to allow users to book appointments, view provider profiles, and access mock health records.
- Served as project manager and lead developer for the HealthCert platform, originally conceived as a group project idea and later expanded independently using Coursera's Front-End Capstone guidance.
- Built HealthCert with HTML, CSS, and JavaScript in a modular, mobile-first design—structured for future backend integration (e.g., Firebase, FastAPI) and scalable deployment.

### EXPERIENCE

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**Swim Instructor**

*Aqua Tots Swim School – Frisco, TX* | Aug – Nov 2022

- Instructed children aged 3–12 in beginner to intermediate swimming techniques.
- Developed strong communication, patience, and leadership in high-pressure learning environments.
- Ensured a safe learning environment through consistent supervision and class structure.

**Debate Club Member**

*Heritage High School – Frisco, TX* | Aug 2021 – May 2024

- Researched complex policy and ethical topics to prepare structured arguments for Lincoln-Douglas and Original Oratory competitions.
- Developed clear, persuasive communication skills by presenting memorized speeches to technical and non-technical audiences.

- Applied project management principles while organizing research, outlines, and presentations under tight deadlines.

## CERTIFICATIONS

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**SQL and Relational Databases 101** – Cognitive Class | Feb 2025

**Python Programming Fundamentals** – *Microsoft* | May 2025

**Data Analysis and Visualization with Python** – *Microsoft* | May 2025

**COVID19 Data Analysis Using Python** - *Coursera* | July 2025

**GenAI Chatbots: Create and Deploy OpenAI-Powered Chatbots** | July 2025

**Python Project for Data Science** – *IBM* | July 2025

**Front-End Development Capstone Project** – *IBM* | Expected August 2025

## REFERENCES

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**Dr. Sayed Shah** – Clinical Assistant Professor, UNT – Sayed.Shah@unt.edu

**Prof. Diana Rabah** – Clinical Assistant Professor, UNT – Diana.Rabah@unt.edu