

# SAM TAYLOR

703-969-6032   [sam.tlor1@gmail.com](mailto:sam.tlor1@gmail.com)   [www.linkedin.com/in/sam-tlor/](https://www.linkedin.com/in/sam-tlor/)   [github.com/SamTlor/SamTlor](https://github.com/SamTlor/SamTlor)  
[samtaylor.vercel.app](https://samtaylor.vercel.app)

## EDUCATION

### George Mason University

May 2026

*Graduate Certificate in Data Analytics Engineering*

### Virginia Commonwealth University

December 2023

*Bachelor of Science in Computer Science*

GPA: 3.5

## EXPERIENCE

### Junior Developer, MicroHealth LLC, Vienna, Virginia

February 2024 - September 2024

- Containerized Hugging Face datasets with Docker, to safeguard PII.
- Engineered AI assistants through prompt engineering enabling scalable AI model deployment.
- Optimized search functionality by applying machine learning algorithms, improving query accuracy.
- Collaborated in full-stack debugging with TypeScript, C# and more, resolving website errors and improving system stability.

## TECHNICAL SKILLS

**Languages:** Python, R, Java, Rust, C, C++, C#, Visual Basic, SQL, Postgres, Typescript, JavaScript, PHP, HTML, CSS, Lisp

**Frameworks:** Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, React.js, Flask

**Techniques:** Machine learning, Regression (Linear & Logistic), Data Visualization, Statistical Modeling, API integration, Cloud Computing, Containerization, CI/CD, Calculus 3, Linear Algebra

**Tools:** Docker, AWS, S3, Lambda, Git, MySQL, MS Office Suite, Google Suite, Zoom

**Certifications:** Meta Front-End Developer

## PROJECTS

### Predicting Solar Wind Conditions at Psyche 16 with NASA | Python, Machine Learning

- Led team in applying ML models to satellite data, improving accuracy of solar wind predictions for asteroid Psyche 16.
- Directed data acquisition, cleaning, and feature engineering to ensure high-quality training sets.

### Spotify Adder | Raspberry Pi, Python, Flask

- Developed playlist management system with OAuth authentication and Flask, automating music database.
- Added alarm clock feature using Raspberry Pi, enhancing functionality with real-world hardware.

### BoxOfficeMaxTV+ | SQL, HTML, CSS, PHP

- Designed relational database and ERD for movies, actors, and awards; built secure role-based access system.
- Delivered user-friendly web interface for querying and managing media data.

### Portfolio Website | React, Typescript, Vercel

- Built and deployed personal portfolio showcasing projects/blogs with dynamic React components.
- Optimized performance via lazy loading and efficient state management; integrated CI/CD.