

SAM TAYLOR

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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, 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

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.