

SAM TAYLOR

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EDUCATION

George Mason University <i>Graduate Certificate in Data Analytics Engineering</i>	May 2026
Virginia Commonwealth University <i>Bachelor of Science in Computer Science</i>	December 2023 GPA: 3.5

EXPERIENCE

Junior Developer , MicroHealth LLC, Vienna, Virginia	February 2024 - September 2024
<ul style="list-style-type: none">• 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.