SAM TAYLOR

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OBJECTIVE

As a computer science graduate, I have a wealth of knowledge about essential techniques that I hope to bring to a dynamic team setting. Having honed my skills through work with NASA and a software engineering internship, I am proficient in object-oriented programming languages Java, Rust, and Python as well as front-end languages such as JavaScript. I am enthusiastic about exploring innovative solutions that can power and advance technology.

EDUCATION

Virginia Commonwealth University December 2023

Bachelor of Science in Computer Science GPA: 3.5

Relevant Courses: AI, Data Science, Software as a Service, Programming Languages, Linear Algebra, Calculus 3, Statistics, Networking, Database Theory, Operating Systems, Algorithm Analysis

EXPERIENCE

Software Engineering Intern, Web Traits, Inc., Gaithersburg, Maryland May 2023 – August 2023

- Used C# and Visual Basic to create email automation system integrated with OfficeSMTP server.
- Implemented Windows Scheduler to automate critical email dispatch to enhance team productivity.
- Designed system for automatic Excel file updates, reducing manual data entry and errors.
- Researched and identified optimal SMTP server solutions to enhance email reliability and speed.
- Integrated hardware with cloud server for automated backups, reducing data loss and downtime.

SKILLS

Programming: Python, Java, Rust, C, C++, C#, Visual Basic, SQL, JavaScript, PHP, HTML, CSS, Excel, Flask, Docker, Lisp, Jupyter Notebook, IDEs, GitHub

Techniques: Machine learning, linear regression, logistic regression, version control, API integration, cloud computing, data visualization, quality assurance, containerization, code review, technical documentation

PROJECTS

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

- Led team in development of sophisticated program to predict solar wind conditions around asteroid Psyche 16, demonstrating strong leadership and project management skills.
- Applied advanced machine learning techniques to enhance prediction accuracy using data from multiple satellites.
- Conducted extensive research to identify relevant data sources.
- Spearheaded data acquisition and cleaning to ensure high-quality data for model training.

Spotify Adder | Raspberry Pi, Python, Flask

- Developed program for playlist management and secure access to Spotify resources.
- Implemented OAuth authentication using Flask and requests module.
- Enhanced playlist management, adding songs from smaller playlists to specific large playlist.
- Added alarm clock feature that plays random song from specific playlist.

- Automated using Raspberry Pi.

BoxOfficeMaxTV+ | SQL, HTML, CSS, PHP

- Designed and implemented comprehensive SQL database system that efficiently stored and managed data related to movies, actors, and their respective awards.
- Designed Entity Relationship Diagram.
- Crafted user-friendly front-end website that provided easy access to stored information, enhancing user experience and accessibility.
- Implemented secure login system with role-based access control, allowing administrators to modify database content while restricting normal users to read-only access, enhancing data security.

CLUBS

Data Sci, Webrams, Game Creators Coalition, AI Club