

SAM SCHAFFT

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EDUCATION AND CERTIFICATIONS

JAMES MADISON UNIVERSITY, Harrisonburg, VA

Bachelor of Science, Computer Science

Minor in Entrepreneurship

[AWS Solutions Architect Associate](#)

[AWS Cloud Practitioner](#)

August 2019 - May 2023



PROJECTS

LLM / RAG Backed Map Chatbot, <https://atlas.samschafft.com>

Created an app where users chat with an AI about their area to get recommendations of activities, places to eat, and more. It uses NextJS in the frontend, Flask and langchain in the backend.

AI SUBTITLE GENERATOR, <https://github.com/schafftsp/subtitle-generator>

Wrote a python script that takes in mp4 video files, extracts the audio, generates a transcription using OpenAI's Whisper ASR system, and outputs another video file with embedded english subtitles.

EXPERIENCE

TRILLION TECHNOLOGY SOLUTIONS, Reston, Virginia

May 2022 - Present

An innovative government contracting firm providing IT and business solutions to numerous government agencies.

DevOps Engineer, Research and Development Team (June 2024 - Present)

- Wrote ETL pipelines for large Postgres data sets that included data cleaning and fed into interactive business intelligence dashboards. Used parallel execution to cut the pipeline execution time by 50%.
- Deployed a microservice application on AWS EKS using Terraform IaC. This included CICD pipelines to ensure the latest stable version of the product was available at all times.
- Mentored a pair of summer interns by answering their questions, setting up their development environment, and helping them contribute to our agile team.

Junior Software Developer, Research and Development Team (June 2023 - June 2024)

- Decreased time taken for end-to-end deployment of large scale AWS EKS project by 30% using Terraform IaC and automated Jenkins CI/CD pipelines.
- Independently wrote a three tier application boilerplate (React, Lambda, RDS) to improve the speed the team was able to respond to requests from new clients by 3x.

Software Developer Intern, Research and Development Team (May 2022 - May 2023)

- Built a zoom-like React web application that allowed users to video chat one-on-one, or in groups. Wrote a Node JS API for the backend that coordinated user sessions using REST endpoints and websockets.

STRATIS INFORMATICS AND CONSULTING, Budapest, Hungary (In-Person)

May 2021 - July 2021

The largest private consulting firm in Hungary.

Product Intern, Business Intelligence Unit

- Developed Business Intelligence report using Tableau for new clients in English and Hungarian.
- Independently planned sprints for upcoming client projects using scrum and agile methodology.

THE CAMPAIGN REGISTRY, Tyson's, VA

May 2020 - August 2021

TCR is a messaging company that works with global mobile operators to register Application-to-Person(A2P) text messages.

Intern, Software Engineering Team

- Designed and built a new DevOps workflow for the initial launch of TCR alongside the head of operations. This included defining metrics in Datadog, alerting responders, and creating a customer facing portal in Freshdesk.
- Created a daily dashboard using Microsoft PowerBI, delivering relevant data to various stakeholder groups via email.