MAHDI ASHRAFEE

SOFTWARE ENGINEER

CONTACT

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SKILLS

- Java, C++, Python
- AWS (EC2, S3, Route 53, Beanstalk, CloudWatch,
 - Fargate, Amazon S3, IAM,
 - Secrets Manager, SageMaker...)
- CI/CD
- JavaScript, HTML/CSS, Tailwind
- OCaml, Bash, Lua
- Docker
- FastAPI, Flask, Django
- SvelteKit
- Yaml, Json
- PocketBase
- Nvim, Emacs, VS Code...
- SQL (MySQL, PostgreSQL)
- NoSQL (MongoDB, DynamoDB)
- Caddy, Nginx
- Redis, Memcached
- WebSockets, Git, REST APIs
- Linux, Git
- GitHub Actions
- TensorFlow

PROFILE

Motivated Computer Science student passionate about cloud infrastructure, distributed systems, and performance optimization. Seeking an internship to leverage hands-on experience with AWS, Docker, and scalable backend systems to tackle real-world challenges.

PROJECTS

SFlow (Planned launch: March 2025) *Flask, Sveltkit, JS, Beanstalk, Docker*

2022 - PRESENT

- Engineered a social media platform with real-time messaging, media uploads, secure user authentication, with rate limiting, JWT-based auth, and API abuse detection.
- Architected scalable microservices deployed via AWS ECS and Fargate, utilizing S3 for object storage and RDS for relational data.
- **Optimized** performance through **CloudFront** CDN integration and container-based auto-scaling.

ScamShield - AI-Powered Scam Call Detection

Python · AWS · OpenAI Whisper · Serverless

2024 - PRESENT

- Engineered a serverless API to detect scam calls using speech-to-text, NLP heuristics, and acoustic analysis.
- Integrated OpenAl Whisper for transcription and applied LLM-based logic to identify urgency, authority, and phishing cues
- **Deployed** scalable backend with **AWS Lambda**, **S3**, and API Gateway to handle secure uploads and return real-time fraud scores.

TerminAI - Terminal AI Assistant

 $\textit{OpenAISDK} \cdot \textit{TensorFlow}$

2023 - PRESENT

- **Developed** a Dockerized terminal-based AI assistant supporting OpenAI GPT and local **TensorFlow** inference with configurable **backend switching.**
- **Implemented** runtime flexibility for model selection and inference settings, enabling seamless toggling between cloud and **local modes**.

EDUCATION

Bachelor of Computer Science

Expected Graduation 2026

School of Engineering | University at Buffalo