

Mahdi Ashrafee

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Profile

Focused on distributed systems, **performance optimization** and scalable cloud infrastructure. Proficient in **Python** and **Go**, with a strong focus on performance, scalability, and **reliability**. Hands-on experience with **AWS**, **Docker**, and **scalable** backend systems.

Education

University at Buffalo, School of Engineering

Expected May 2027

Bachelor of Science in Computer Science

GPA: 3.55

Projects & Involvement

ScamShield API

Jan 2023 – May 2025

Python, AWS Lambda, API Gateway, Whisper, Serverless

- Engineered a **serverless scam call detection** API leveraging **Whisper** for speech-to-text and NLP **heuristics** to flag suspicious patterns.
- Integrated with **AWS Lambda** and API Gateway to process calls in real time, achieving **90%** detection accuracy.
- Designed architecture for scalability and **cost-efficiency** by using **on-demand compute** and S3 storage for audio logs.

SFlow (Social Media) - Founder & Developer

Sep 2022 – Dec 2024

Go, AWS, Docker, CloudFront, RDS

- Managed the full development lifecycle: **backend architecture**, **deployment pipelines**, and AWS infrastructure.
- Implemented authentication (**JWT**), rate limiting, and **abuse detection**, ensuring platform security and reliability.
- Scaled services with **AWS ECS** and **CloudFront CDN**, improving performance and reducing latency by **30%**.

Open-Source Contributor – AWS Copilot CLI

Jan 2024 – Sep 2024

Go, AWS, Docker, Copilot

- Contributed** to the AWS Copilot CLI, an open-source tool for deploying and managing containerized applications on AWS.
- Collaborated with the AWS open-source community through **issue tracking**, and **code reviews**.

Skills

Languages/Frameworks: Python, Go, Java, C++, JavaScript, Flask, FastAPI, Django, SvelteKit

Cloud/DevOps: AWS (ECS, Fargate, Lambda, S3, Beanstack, RDS, SageMaker, IAM, Route 53), Docker, GitHub Actions, **CI/CD**

Databases/Other: MySQL, PostgreSQL, DynamoDB, MongoDB, Linux, Git, Nginx, **WebSockets**