Ahmed Darwich

(330) 786-5689 | adarwich2010@gmail.com | https://github.com/darwich6 | www.linkedin.com/in/ahmed-darwich | https://darwich.dev

Education

University of Akron, Akron, Ohio
  Cumulative GPA: 3.8 | **Major:** Computer Science, Data Analytics | Degree: B.S. and M.S.   2018 - 2023

Experience

Manifold Labs, *Lead Software Engineer,* Austin Texas   2024 - Present
Led and mentored a team of 4 engineers while serving as principal contributor, driving
 architectural decisions and delivering core feature implementations.
Directed development of Targon.com, a serverless compute and inference platform serving
 enterprise clients including OpenRouter.
Architected and scaled the Targon API and Sybil API, handling 4K+ requests per minute
 and powering 20B+ tokens daily across enterprise workloads.
Played a key role in developing the Targon Virtual Machine (TVM), enabling trustless
 execution on untrusted hardware using NVIDIA CC, Intel TDX, and AMD SEV.
Directed the release of Tao.XYZ, a blockchain analytics dashboard, overseeing backend
  development, data-ingestion pipelines, and scraping infrastructure.
Designed and deployed modular microservices for credit accounting, usage metering,
 and data integrity, ensuring reliable billing and seamless integration for enterprise clients.
Served as primary liaison for enterprise clients, coordinating model deployments,
 resolving technical issues, and ensuring SLA compliance.
Huntington Bancshares, *Business Analyst 3*, Columbus Ohio   2020 - 2024
Designed and optimized SQL queries to generate commercial loan servicing reports,
  supporting the company-wide migration from AFS Level III to AFS Vision.
Played a key role in the TCF acquisition by validating and integrating commercial
  loan data, ensuring accuracy and continuity across enterprise reporting systems.
Brunus Labs, *Full Stack Software Developer,* Akron Ohio   2022
Delivered full-stack web applications for client contracts and internal projects,
  owning the complete development lifecycle from requirements gathering to deployment.

Coding Projects

Targon-Tower (Golang)
Developed attestation relay service for the Targon Virtual Machine, integrating with Intel
  attestation services and AMD SEV's Key Broker Service (KBS) to enable secure, local
  verification of trustless execution environments.
Nuickly (Django, Python, SQLite)
Built a Django-based web app to scrape and analyze news from BBC, Al Jazeera, and
 USA Today; applied NLP to surface sentiment and bias by source, providing users
 with transparent news insights.
Sentimarto (Python, OpenAI DALL-E)
Designed a sentiment-analysis pipeline on the ARTEMIS 2.0 dataset and OpenAI DALL·E,
 generating new AI art conditioned on human emotional responses and validated against
 a 1.6M-tweet dataset.

Technical Skills

Languages: Go (Golang, backend), TypeScript (frontend), Python, SQL
Web & Frontend: React, Next.js
Backend Systems: APIs, Microservices, Distributed Systems and Workloads
Databases: MySQL, MongoDB, PostgreSQL
AI & Inference: VLLM, SGLang, TensorRT
DevOps & Cloud: Kubernetes, Docker, Prometheus/Grafana, CI/CD

Leadership and Awards

Graduate Teaching Assistant   2022 - 2023
  Instructed and designed Lab Curriculum for CS 2 and Data Structures students
College of Engineering Dean's List   2018 - 2022
  Given to students who obtain 3.7 GPA or higher