

Abdullah Elsayed

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Personal Website | GitHub | LinkedIn

Full-stack engineer building web platforms, Python/FastAPI services, AI developer tools, and cloud-backed products. Experienced with React, TypeScript, Node.js, PostgreSQL, AWS/S3, GCP, Docker, CI/CD, and production delivery.

WORK EXPERIENCE

Founding Engineer

Jan 2024 - Apr 2026

Aim AI

United States (Remote)

- Architected and developed a voice AI platform for creating conversational agents for customer service, sales, and automated receptionist use cases.
- Engineered real-time voice engine integrating speech-to-text, LLM, and text-to-speech pipelines with sub-second latency.
- Developed Python/FastAPI backend handling 1M+ calls daily with 99%+ uptime.
- Built a Next.js dashboard enabling configuration of conversational flows, knowledge sources, and deployments.
- Automated Dockerized GCP deployments across Cloud Run, Compute Engine, Cloud Build, Cloud Storage, Scheduler/Tasks, and Container Registry.

Full-Stack Engineer

Jul 2022 - Sep 2022

Fusion XYZ

Melbourne, Australia (Remote)

- Built HiddenGem using Next.js, an NFT analytics platform with real-time floor prices, trading volumes, and trending collections.
- Co-developed blockchain data aggregator collecting on-chain NFT data from Ethereum including sales, transfers, and marketplace events.
- Implemented interactive price charts, collection statistics, and wallet tracking dashboards with live data updates.
- Introduced coding standards and documentation practices, enhancing code maintainability.

TECHNICAL PROJECTS

Weldr weldr-ai/weldr-old

May 2024 - Jan 2026

AI coding platform with React/Next.js, Hono, PostgreSQL, Vercel AI SDK, and semantic call-graph visualization.

Thoth: Multitier Web DSL & Compiler abdufelsayed/thoth

Sep 2022 - Mar 2023

Statically-typed multitier DSL implemented in OCaml; a single source program defines database, server, and client tiers and compiles to human-readable TypeScript/React/Node/Prisma code with SSE support.

AwsKit abdufelsayed/awsKit

Apr 2026 - Present

Modular OCaml AWS libraries with core packages for credentials, endpoints, SigV4 signing, retries, and runtimes, plus S3 buckets, objects, multipart uploads, presigned URLs, and test simulation.

Nimbus Narratives abdufelsayed/nimbus-narratives

Jun 2023 - Apr 2024

Accessible Astro/Preact/Tailwind blog theme with 43 stars, 12 forks, 100/100 Lighthouse performance, SEO metadata, sitemap, RSS, and MDX support.

EDUCATION

University of Birmingham

Birmingham, UK

MEng in Computer Science and Software Engineering

Sep 2019 - Jun 2023

Classification: First-Class Honors

SKILLS

Frontend: TypeScript, JavaScript, HTML, CSS, React, Next.js, Astro, TailwindCSS, Accessibility, SEO

Backend: Python, FastAPI, REST/WebSocket APIs, Node.js, PostgreSQL, SQL, OCaml

Cloud/DevOps: AWS/S3, GCP, Cloud Run, Cloud Storage, GitHub Actions, Docker, Linux, CI/CD

Languages: Arabic (Native), English (Fluent)