

# 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

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### Founding Engineer

Jan 2024 - Mar 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 100K+ calls daily with 99%+ uptime.
- Built a Next.js dashboard enabling configuration of conversational flows, knowledge sources, and deployments.
- Maintained GitHub Actions CI and Dockerized GCP deployments across Cloud Run, Compute Engine, Cloud Build triggers, 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

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**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

*AWS/S3 infrastructure for OCaml with SigV4 signing, Docker/MinIO tests, and GitHub Actions CI.*

**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

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**University of Birmingham**

Birmingham, UK

*MEng in Computer Science and Software Engineering*

Sep 2019 - Jun 2023

**Classification:** First-Class Honors

## SKILLS

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**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)