

Farid Abbasov

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EDUCATION

University of Houston

Bachelor of Science in Computer Science, Minor in Mathematics

Houston, TX

Aug 2022 – May 2026

EXPERIENCE

Blockchain for Energy (B4E)

Software Engineering Intern

Houston, TX

Aug 2025 – Present

- Shipped a production-ready full stack logistics dashboard from scratch with React and REST APIs, integrating 11+ endpoints for real time event and asset tracking.
- Built interactive analytics and geospatial maps using Plotly, Dash, and Mapbox to surface KPIs and incident heatmaps for executive reviews.
- Owned end-to-end development across frontend and backend services while reporting directly to the engineering manager and maintaining Git/GitHub branching and issue workflows.

Land of Fire Co.

Houston, TX

Data Analyst Intern

May 2025 – August 2025

- Designed and implemented ETL pipelines and Power BI dashboards for small-business clients using Python and SQL.
- Transformed messy sales, inventory, and customer data into clean, actionable reports used in client strategy calls.
- Built one-off data tools, including CRM/ERP integrations and Excel automations, tailored to each engagement.

Bureau of Economic Geology @ UT Austin

Austin, TX

Undergraduate Machine Learning Researcher

Mar 2025 – Aug 2025

- Researched image diffusion models to enhance satellite imagery, improving geospatial pattern recognition and land-use analysis.
- Developed machine learning techniques to reduce sensor and atmospheric noise in remote sensing data, increasing image clarity for geospatial analysis.
- Applied deep learning-based interpolation methods to boost spatial resolution of satellite imagery for environmental monitoring.

PROJECTS

Museum Database Web App | *React, Express.js, MySQL, Clerk, Railway, Node.js*

- Delivered a production-grade museum management platform with React dashboards, Clerk authentication, Express REST APIs, and MySQL schemas for exhibits, guests, employees, and gift-shop transactions.
- Deployed on Railway with automated migrations and continuous delivery, enabling real-time role-based CRUD operations and inventory analytics.

Interview Prep Discord Assistant | *Python, FastAPI, Supabase (pgvector), Docker*

- Built a Discord study assistant that runs mock coding interviews, timed quizzes, and PDF-grounded Q&A via a Retrieval-Augmented Generation pipeline, with optional text-to-speech in voice channels.
- Implemented PDF text extraction + embedding storage in Supabase pgvector, serving cited answers through FastAPI endpoints in Docker Compose.
- Added ruff pytest checks and GitHub Actions CI to ensure deployment readiness and code quality.

CERTIFICATIONS

Google Data Analytics Professional Certificate

Coursera — Issued July 2025

BCG Strategy Consulting Virtual Experience

Forage — Issued June 2025

TECHNICAL SKILLS

Languages: Java / C#, Python, C++, SQL (MySQL/PostgreSQL), TypeScript / JavaScript, Excel (PowerQuery)

Frameworks/Tools: React, Node.js, Flask, REST APIs, Dash, Plotly, Mapbox, Firebase, Pandas, NumPy, scikit-learn, Power BI, Jupyter Notebooks

Cloud/DevOps: Git/GitHub, Docker, CI/CD (GitHub Actions), Railway, basic AWS/GCP experience