

Mahmoud Badi

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EDUCATION

University of Houston

Bachelor of Science, Computer Science, Minor in Mathematics

2022 - 2027

Houston, TX

WORK EXPERIENCE

IBM

Technical Sales Specialist Co-op

September 2026 - Present

Austin, TX

- Built SalesBob, an Electron/React/TypeScript desktop tool for AI-assisted sales development that streamed watsonx.ai responses into a real-time objection-handling overlay, using local, on-device speech recognition to trigger relevant playbook content without sending call audio anywhere.

BECU

Software Developer Intern

June 2026 - September 2026

Remote

- Built the Workflow Management feature end to end for Campaign Center, BECU's internal marketing platform, implementing a NoSQL Azure Cosmos DB repository layer with full CRUD and custom exception handling, four versioned ASP.NET Core REST endpoints in C# and .NET 10, and a React/TypeScript UI with filtering and create/edit/delete modals.
- Wrote 23 system, integration, and unit tests with xUnit v3, NSubstitute, and WebApplicationFactory, validating functionality across the software development lifecycle, and fixed a CRLF line-ending bug affecting all 41 frontend .tsx files by rewriting them as raw bytes.

FUJIFILM Biotechnologies

Software Engineer Intern

May 2025 - August 2025

College Station, TX

- Built a cross-platform desktop application using Python and Electron.js that monitored and pinged 200+ networked lab systems by automating bulk network requests, CSV data parsing, and SQL database logging to replace manual checks.
- Wrote RESTful backend services in Python and a real-time dashboard in JavaScript, Node.js, and Electron.js visualizing SQL-logged network health, improving issue detection speed by 95% by surfacing connection failures and latency trends.

WebRise

Founder and Web Developer

January 2025 - Present

Houston, TX

- Founded and operate a web design agency delivering production websites for local businesses, shipping client sites in Next.js, TypeScript, and React with RESTful API endpoints, Vercel Analytics, and responsive layouts.
- Designed and deployed a client portal where customers discover businesses and book appointments directly, handling scheduling, validation, and SEO.

iCode School

Technical Lead

November 2023 - August 2025

Houston, TX

- Led 150+ coding classes for 100+ students in Python, JavaScript, HTML/CSS, and Lua, authoring curricula from syntax to working applications.

PROJECTS

Barakah

Next.js 16, TypeScript, PostgreSQL, Prisma, Plaid API, Zoya API, Recharts, Vercel

- Designed and built a full-stack personal finance platform as a 24-hour hackathon MVP at hack.msa (UT Austin), implementing Plaid bank aggregation across 10,000+ institutions, a wealth engine with live gold, silver, and stock pricing, per-holding ethical screening through the Zoya API, and typed REST API routes with Prisma 5 on PostgreSQL.

CougarDegree

JavaScript, Node.js, HTML/CSS, Google Gemini AI API

- Won the MLH Best Use of DigitalOcean Gradient AI Award by building and deploying a full-stack web app in 36 hours at CodeRED Astra, integrating the Gemini AI API to generate degree plans for 48+ programs.

TECHNICAL SKILLS

Languages: C#, Python, TypeScript, JavaScript, SQL, HTML/CSS, C++

Frameworks/Libraries: ASP.NET Core, .NET 10, React, Next.js, Node.js, FastAPI, Prisma, Vite, Electron.js

Databases/Cloud/Tools: Azure Cosmos DB, PostgreSQL, Microsoft Azure, Azure DevOps, Vercel, Git, xUnit, CI/CD, Agile/Scrum, Splunk, Stripe, Plaid, Figma, NoSQL, AI-Assisted Development, Software Development Lifecycle