

Hyder Baig

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U.S. Citizen in Upland, CA

Education & Certificates

- B.S. in Computer Science, Minor in Data Science, from CSU San Bernardino in CA Expected May 2027
- A.S. in Business Administration from Chaffey College in CA 2025
- Coursework: Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, Databases

Work History

Engineering Intern at Elsinore Valley Municipal Water District, CA

May 2026 to Current

- Designed, built, tested, and deployed full-stack web applications from initial design to production, translating the operational needs of engineering, compliance, and field teams into software that replaced manual processes and unreliable legacy tools.
- Built a compliance reporting platform with React, TypeScript, and a Python FastAPI REST API on SQL Server that read live database records and auto-generated recurring state reports in Excel and PDF, replacing manual data entry.
- Wrote 200+ automated unit and API tests with pytest to keep the platform's calculations, form generation, and authentication well-tested and maintainable, so AI-assisted code changes (Claude Code) were verified before release.
- Developed a field data-collection web app with Python, FastAPI, PostgreSQL, and JavaScript that flagged statistical outliers as operators entered readings, catching data errors before they were submitted.
- Secured the app with Microsoft Entra ID (OAuth 2.0) single sign-on and role-based access control, and deployed it on a Linux server behind an Nginx reverse proxy with systemd for reliable on-premises hosting.
- Built and deployed a replacement for an unreliable legacy field inspection system on the same stack, giving field staff a stable tool they adopted in full production use.
- Solved a manual transcription problem by writing a Python PDF-parsing pipeline with PyMuPDF that extracted results from monthly lab reports and filled state forms automatically.
- Collaborated with four departments to gather requirements and built 12+ Power BI dashboards using SQL, Power Query, and DAX, combining two separate SQL databases and Excel into one place for each team.

Meta Brand Ambassador at 2020 Companies, CA

May 2024 to December 2025

- Represented Meta's AR/VR products in retail stores by demonstrating devices, answering technical questions, and helping customers set up and troubleshoot their hardware.
- Delivered 50+ hands-on demonstrations weekly by breaking complex AR/VR features into plain-language explanations, contributing to a 30% improvement in customer engagement.
- Troubleshoot device, app, and network issues in real time during live demos, resolving connectivity and software problems under time pressure to keep demonstrations running.

- Gathered user feedback and requirements from customers and communicated product capabilities as a technical liaison between customers and Meta's product ecosystem.

Projects

Task Management REST API (Python, FastAPI, SQLite)

- Built a RESTful API in Python with FastAPI to manage users and tasks, supporting full CRUD operations with input validation and structured error handling.
- Designed a SQLite database schema for persistent storage and tested every endpoint with Postman to confirm correct responses and error cases.
- Organized the codebase with modular routing and reusable service functions to keep it easy to extend.

Data Trend Analysis & Visualization Dashboard (Python, Pandas, Plotly, Streamlit)

- Built an interactive Python dashboard with Pandas, Plotly, and Streamlit that ingested CSV datasets and cleaned and preprocessed them for analysis.
- Implemented trend analysis, rolling averages, IQR outlier detection, and automated summary statistics to surface patterns in the data.
- Designed exportable reports so findings could be shared with non-technical audiences.