Bahar Abbasi Delvand

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EDUCATION

McMaster University — Bachelor of Computer Science

September 2020 — April 2025 — *Minor in Art History*

∗ ***Relevant Coursework:*** Software Testing, Data-Driven Algorithms for Sequential Decision Making, Databases, Concurrent Systems, Information Security, Computer Networks and Security, Operating Systems, Data Mining

TECHNICAL SKILLS

Languages : JavaScript, TypeScript, Python, C, C++, C#, Bash, Golang, Java, Haskell, SQL, Ruby, Swift, Elm, CSS, Sass, HTML, Assembly

Frameworks, Libraries, and Tools : React.js, Node.js, Next.js, Redux, Angular.js, Flask, Express.js, JUnit Testing, Jest, Tailwind CSS, Bootstrap, OAuth0, Liveblocks, RESTful API, Spring Boot, Docker, Linux, UNIX, Vercel, Azure, GCP, Git, Postman, React Workflow, AWS, Jest, Zustand, MUI Library

Databases : MySQL, PostgreSQL, MongoDB, MSSQL, Redis, Oracle Database, DynamoDB

RECENT EXPERIENCE

MBA4HIRE | *Full-Stack Developer*   *June 2024 – Present*

– Built and deployed a **full-stack financial platform** using **Next.js**, React, **Express.js**, Vercel, and Azure SQL Database, featuring real-time routing, global state management with **Zustand**, and added secure authentication/authorization with **Auth0** and JWTs.

– Created two **AI-driven chatbots**: one using **Retrieval-Augmented Generation (RAG)** with vectorized semantic search for contextual responses, and another that transforms natural language prompts into structured JSON tables and generates database schemas, cutting manual setup time and automating data workflows.

– Developed a **Slack integration** with full multi-workspace support that allows users to access the workspaces linked to their Slack account directly in-app, with **persistent per-workspace state** to eliminate redundant setup and reduce context switching.

– Implemented **real-time UI features** including drag-and-drop task workflows, live notifications, and dynamic data rehydration to improve responsiveness and interactivity.

SELECTED PROJECTS

Bracket Maker | *Typescript, SQL, Zustand, Bootstrap* | *July 2025 - September 2025*

– Engineered a dynamic bracket-making platform with support for Round-Robin, Single-Elimination, and Double-Elimination formats, implementing custom logic for match scheduling, result propagation, and progression tracking across complex tournament trees.

– Used **React**, **TypeScript**, and **Zustand** to manage persistent application state, enabling seamless updates, bracket resets, and live reactivity as users cast votes or advance matchups.

Geospatial Analysis of Second Empire France Artists | *ArcGis Pro, SQL, Excel*   *June 2024 - Present*

– Collaborated on a spatial data research project with a McMaster Art History professor, mapping 19th-century French artists' residences and migration patterns using **ArcGIS Pro**, **SQL**, and Excel to analyze how geography and proximity to institutions shaped artistic networks.

– Organized and cleaned historical data from multiple sources into structured artist profiles; standardized locations and dates for accurate spatial mapping and analysis of how institutional proximity and urban expansion influenced artistic movement.

CERTIFICATIONS

AWS Certified Developer – Associate | *Amazon Web Services* | ✸   *April 28, 2025*