

Hassan Shahzad

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WORK EXPERIENCE

Full Stack Developer

May 2023 - Sep 2025

Second Edition, LLC - Denver, CO

- Designed, built, and owned end-to-end development of a **full stack internal web application**, transforming the legacy spreadsheet-based system into a modular, access-controlled, and accessible platform using **Node.js**, **React**, **Express**, and **MySQL** on **Google Cloud Platform** reducing input errors by **90%**.
- Developed **custom vehicle routing APIs** and **cost-analysis algorithms** in **JavaScript** to evaluate delivery and pickup profitability, achieving a **guaranteed 20%+ profit margin** on every appointment.
- Automated repetitive workflows** by engineering cron jobs in **JavaScript** and **Python** to detect necessary item status adjustments, enforce item expiration rules, and send customer updates via text (Twilio API) and email (Nodemailer) **saving 80 staff hours per week**.

Database Administrator (Pathways Intern)

Dec 2021 - May 2023

National Institute of Standards & Technology (NIST) - Boulder, CO

- Maintained and optimized a **SQL-based employee access database** linked to legacy electronic lock systems, ensuring secure and reliable entry for **700+ personnel** across mission-critical labs and offices.
- Programmed and synced **employee keycards** and **lock systems** by writing data to RFID cards and configuring locks to recognize credentials, guaranteeing alignment between hardware and database records.
- Developed and implemented **data-driven access protocols** and **optimal facility routing procedures**, reducing on-site configuration and travel time by **30%** and access latency by **25%**.
- Executed **daily database backups** and **integrity checks** on isolated systems to prevent data corruption and maintain operational continuity.

LEADERSHIP EXPERIENCE

Software Development Team Lead

Jun 2025 - Aug 2025

Second Edition, LLC - Denver, CO

- Led and mentored a software engineering intern** through a full development cycle, guiding them in refactoring a Vanilla JS, Node.js, and Express application to integrate **React**, **GraphQL (Apollo)**, and **token-based authentication**, and successfully delivering a **real-time employee tool-pinning feature**.
- Implemented **CI/CD pipelines** using **GitHub Actions**, integrating automated **ESLint** checks, structured **branching** and **code-review practices**, and streamlined deployments to standardize code quality and enable efficient multi-developer collaboration.

Chief Executive Officer

May 2023 - May 2025

CU Boulder Barbell, NPO - Boulder, CO

- Founded and scaled a 501(c)(3) nonprofit organization**, establishing financial independence through secured public charity status, multi-source sponsorships, and a revenue-generating Shopify merchandise store, while leading a **10-person officer team** to manage operations for **100+ members**.
- Directed and produced the Colorado Collegiate Showdown**, guiding a **cross-university team** to raise over **\$35K across two years** and reduce athlete registration costs by **90%**, delivering a professional-level powerlifting event that combined project management, branding, and community outreach.

SKILLS

Programming Languages: JavaScript, TypeScript, HTML5, CSS3, SQL, Python, C++

Frontend Technologies: React, Next.js, Embedded JavaScript (EJS), TailwindCSS

Backend Technologies: Node.js, Express, MySQL, REST APIs, GraphQL (Apollo)

Developer Tools: Google Cloud Platform, Git, Postman, Jira

EDUCATION

University of Colorado - Boulder

Aug 2020 - Aug 2025

Bachelor's of Science in **Computer Science**, Minor in **Creative Technology & Design**