Jacob Diehl

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CAREER SUMMARY

Full-stack engineer proficient in JavaScript, TypeScript, and cloud-based architectures. Experienced in building responsive applications, integrating APIs, and optimizing performance for user-centric, scalable solutions.

EXPERIENCE

Novata   *Denver, Colorado*
L4 Analytics Developer   *July 2024 - March 2025*
- Developed custom Sisense plugins using JavaScript and CSS to modify widget styling, ensuring a consistent and scalable design across thousands of dashboards.
- Engineered a custom Sisense navigation system with query parameters, empowering users to explore multi-level portfolio metrics, benchmarks, and data gaps. This was implemented on a customer-facing Mini-Site used by Novata's 10000+ customers.
- Cleaned and categorized CSV data with TypeScript, then built an algorithm to auto-select benchmarks by sector, FTE, and revenue—dynamically selecting the most relevant benchmark for users on the platform, leading to 50% fewer benchmark-related customer support sessions.
- Orchestrated a Dagster job to automate data ingestion from app-side S3 file storage to a production Snowflake database. JSON-based submissions were parsed and loaded every 30 minutes. DBT was used to clean and transform the data into subsequent SQL tables, ensuring high-quality reporting insights for the Analytics tool.
- Developed custom DBT macros using Jinja and YAML to flag potential data entry errors, detecting anomalies to flag incorrect entries to improve data accuracy and integrity.
- Reviewed colleagues' pull requests in GitHub to prevent breaking changes to the Snowflake data warehouse.

Data Annotation   *Denver, Colorado*
AI Training Specialist   *February 2024 - July 2024*
- Reviewed user queries to identify security risks by detecting SQL injection attempts, PII exposure, session hijacking, or misinformation prompts, ensuring the model responded appropriately to maintain safety and accuracy.
- Identified gaps in AI model knowledge by probing various JavaScript libraries, APIs, and tools (ie. WebRTC, Dagster, etc.), then suggested improvements to model responses based on accuracy, time complexity, modularity, and reliability.

Flatiron   *Denver, Colorado*
Mentor   *May 2024 - July 2024*
- Diagnosed coding errors to unblock students, and provided hints that improved their debugging skills.
- Coached students on deploying their projects to Render by guiding them through server-side integration with ElephantSQL, enabling them to build full-stack applications.

TECHNICAL SKILLS

Languages: JavaScript, Typescript, Python, SQL, HTML, SCSS, JSON, Bash, and Jinja
Tools: React, Jest, Dagster, DBT, Snowflake, GitHub, Jira, Node.js, Express.js, SWR, WebRTC, and Docker
AWS Services: API Gateway, Lambda, IAM, S3, and AWS Aurora

TECHNICAL PROJECT

Diehl Domain - Github | Website
A personal portfolio website to showcase my skills as an engineer.
- Developed an online Connect 4 game in Next.js using SWR for real-time gameplay.
- Optimized site-wide theming using SCSS variables for a consistent design.

EDUCATION

Flatiron School   *Denver, Colorado*
Full Stack Web Development Bootcamp   *2022-2023*