Brandon Dennison — Software Engineer
brandon-d.com • github.com/BranDenn

Summary

Software Engineer with experience building and maintaining web applications, internal tools, and automated workflows. Strong focus on clean architecture, maintainable code, and data-driven features. Experienced in front-end development with modern frameworks, backend data integration, and building productivity tools that improve operational efficiency.

Core Skills

Fullstack Development, Frontend Development, Backend Development, JavaScript / TypeScript, HTML, CSS, Node.js, Bun, Svelte, Sveltekit, Vite, Tailwind CSS, Tauri, REST APIs & Data Integration, SQL & Backend Data Access, Application Architecture & Design, Automation Tooling & Scripting, Version Control (Git), Debugging & Performance Optimization

Work Experience

Arrowhead Products
Leading manufacturer of aerospace ducting systems and propulsion lines, serving commercial, military, and space vehicles.

Project Analyst April 2025 - Present
• Developed internal automation tools to streamline complex order validation and KPI distribution workflows.
• Architected automated reporting pipelines to deliver real-time, high-integrity metrics to executive leadership.
• Engineered robust Excel-based applications to eliminate manual data entry, reducing processing errors by 25%.
• Optimized legacy project management workflows through systematic automation, improving team efficiency by 20%.
• Built complex SQL-based extraction and validation routines to maintain data consistency across disparate systems.
• Translated evolving business requirements into technical solution specifications with comprehensive documentation.
• Facilitated cross-functional collaboration by providing technical support to engineering, contracts, and space teams.
• Standardized internal software request processes by managing the intake lifecycle and technical kick-off.
• Synthesized multi-system contract and backlog data to identify demand gaps and resolve reporting discrepancies.

Program Coordinator October 2022 - March 2025
• Automated fiscal tracking and customer service reporting by engineering scalable, logic-based workflows.
• Designed structured data schemas to improve forecast accuracy and ensure long-term reporting integrity.
• Optimized program documentation and delivery timelines through the implementation of systematic tracking processes.

Technical Experience

SvelDocs — Full-Stack Developer (brandenn.github.io/SvelDocs)
• Built a high-performance documentation template using SvelteKit and TypeScript with support for SSR and SSG.
• Developed a modular, customizable framework featuring native search and simplified configuration for technical sites.
• Reduced project setup time by creating an open-source, extensible boilerplate for rapid documentation deployment.

Audifile — Desktop Application Engineer
• Engineered a high-performance cross-platform desktop application using Rust, Tauri, and Svelte for audio management.
• Developed a responsive UI to enable low-latency visualization and analysis of complex local audio datasets.
• Delivered a secure, centralized workspace tool for efficient metadata tagging and high-fidelity waveform analysis.

Education

B.S in Computer Engineering — California State University, Long Beach Fall 2019 - Spring 2023
Computer Architecture, Programming, Embedded Systems, FPGA, Operating Systems, Digital Signal Processing, Algorithms, Circuit Analysis, Software & Hardware Engineering

Brandon Dennison — Data Analyst
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Summary

Data Analyst with experience translating operational and business data into actionable insights. Strong background in SQL, advanced Excel automation, and KPI dashboard development to support decision-making and performance tracking. Proven ability to streamline reporting workflows, improve data accuracy, and communicate insights to stakeholders.

Core Skills

SQL (data extraction, joins, aggregations), Excel (advanced formulas, VBA automation, Power Query), Python, KPI Dashboards & Reporting, Data Cleaning & Validation, Business Intelligence Fundamentals, Requirements Gathering & Stakeholder Communication, Process Optimization & Automation, Data visualization, Ad Hoc Analysis & Trend Identification

Work Experience

Arrowhead Products
Leading manufacturer of aerospace ducting systems and propulsion lines, serving commercial, military, and space vehicles.

Project Analyst April 2025 - Present
• Analyzed end-to-end project performance and risk data to provide actionable insights for program decision-making.
• Built and maintained KPI dashboards and recurring reports, enabling leadership to track departmental performance in real-time.
• Performed data validation and ad hoc analysis using SQL and Excel, ensuring 100% accuracy and regulatory compliance.
• Reconciled orders, contracts, and backlogs to proactively identify demand gaps and resolve reporting discrepancies.
• Presented complex data insights to leadership via visual reporting to drive strategic business outcomes.
• Identified process improvement opportunities via data-driven analysis, leading to more efficient workflows across the company.
• Provided continuous technical support to cross-functional teams including Space, Contracts, and Engineering.
• Served as primary IT liaison, managing the intake and kick-off process for internal software requests.
• Conducted comprehensive audits of historical data sets to identify legacy errors and ensure the long-term system integrity.

Program Coordinator October 2022 - March 2025
• Delivered cost tracking and fiscal reporting for management and customers, ensuring metric transparency.
• Engineered Excel automation for KPI tracking, reducing manual entry and accelerating service analysis.
• Streamlined forecasting by designing structured data collection methods to improve reporting accuracy.

Technical Experience

Audifile — Data Engineer & Developer
• Automated metadata extraction from audio files, converting raw, unstructured file data into a standardized analytical format.
• Designed a structured database schema to enable efficient querying, filtering, and comparative analysis of diverse file attributes.
• Developed a desktop application with dynamic filtering and visualizations, allowing for rapid audio information discovery.

Intranet Dashboard — Data Engineer & Full-Stack Developer
• Architected PostgreSQL databases and wrote complex SQL queries to support structured business reporting.
• Built interactive dashboards featuring charts and filters to visualize operational trends and insights.
• Implemented relational constraints to ensure data integrity and simulate enterprise-grade reporting.

Education

B.S in Computer Engineering — California State University, Long Beach Fall 2019 - Spring 2023
Computer Architecture, Programming, Embedded Systems, FPGA, Operating Systems, Digital Signal Processing, Algorithms, Circuit Analysis, Software & Hardware Engineering