
Sean Danielson

Senior Software Engineer

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SUMMARY

Senior full-stack engineer with 4+ years building and modernizing financial software; promoted to Senior at Blackbaud in two years. Recent work spans production LLM features (document ingestion, retrieval-backed in-product assistant), a security service rewrite on the platform's critical path, and legacy-to-modern data migrations. Depth in TypeScript/Node and C#/.NET across Azure and GCP.

SKILLS

Languages: TypeScript, JavaScript, C#, SQL

Backend: Node.js, NestJS, Express, .NET, REST APIs, event-driven architecture (Azure Service Bus)

Frontend: React, Angular, HTML/CSS

Data & Cloud: SQL Server, MySQL, Cloud SQL, CosmosDB, Azure, GCP, AWS, CI/CD

AI: LLM integration, model evaluation and selection, tool/function calling, retrieval over knowledge bases (RAG), OCR / document intelligence. Agentic development workflow (Claude Code, GitHub Copilot).

EXPERIENCE

Blackbaud, Charleston, SC - *Senior Software Engineer*

MAY 2024 - PRESENT (Software Engineer, MAY 2022 - MAY 2024)

- Designed and shipped the platform's AI invoice ingestion pipeline: OCR extraction, LLM interpretation of unstructured invoice documents, and an AI-driven matching layer that reconciles extracted fields against existing records in the accounting system — replacing manual AP data entry.
- Evaluated and benchmarked multiple LLMs against real customer invoice formats, driving end-to-end extraction accuracy from ~40% in early prototypes to 80–90% in production.
- Contributed to Blackbaud's in-product AI assistant — an LLM using tool calling and retrieval over product knowledge bases to answer customer questions in context.
- Researched and evaluated ML approaches for anomaly detection across financial data as an exploratory initiative.
- Promoted to Senior in two years — recognized for end-to-end feature ownership, influence on platform design decisions, and introducing new technologies to the team.
- Led the rewrite of the product's security service, which translates user permissions between the legacy system and the modern platform — a critical-path component for every authenticated request.
- Delivered data hydration work migrating core entities off legacy systems into the modern platform with no customer-facing downtime; mentor engineers on new tooling through internal walkthroughs and code review.

Cloud Music Suite, Remote - *Cofounder and Lead Software Engineer*

APRIL 2020 - PRESENT

- Cofounded and own the full stack of a music education platform — sole engineer across architecture, implementation, and deployment.
- Rewrote the frontend and backend onto a modern stack (React, NestJS, TypeScript, MySQL on Google Cloud) and executed a full database migration off the original schema.

Collins Aerospace, Cedar Rapids, IA - *Software Engineering Intern*

MAY 2019 - AUGUST 2019 — Internal R&D, Cyber Systems team.

EDUCATION

Clemson University, Clemson, SC - *B.S. Computer Science*

AUGUST 2018 - MAY 2022

Minor in Cybersecurity. 3.8 GPA.