

PROFESSIONAL SUMMARY

Self-taught software developer with a rapid career progression. Skilled in building scalable APIs, optimizing and maintaining large-scale SQL databases, and delivering cloud-based solutions that improve performance and reliability. Experienced across insurance, manufacturing, and sports analytics domains, with a track record of resolving complex integration issues and collaborating across teams to meet enterprise needs. Background in music composition and over a decade of teaching piano honed creativity, patience, and a structured problem-solving mindset that parallels modern software development.

EMPLOYMENT

Software Developer II	Porch Software	January 2025 – Present
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- Delivered high-priority bug fixes and enhancements for enterprise insurance platforms serving clients such as Pacific Life and Edward Jones, ensuring compliance with complex business rules and multi-party data exchange requirements.
- Diagnosed and resolved integration issues across multi-environment deployments (test, staging, production), including TX103 payload defects, cross-system authorization mismatches, and broken workflow triggers.
- Collaborated with QA, product owners, and carrier partners to clarify ambiguous requirements and implement precise data mapping, preventing downstream processing failures.
- Improved reliability of notification and email distribution pipelines by addressing edge cases in underwriting workflows, ensuring proper delivery to multiple stakeholder groups (advisers, distribution partners, organizational contacts).

Software Developer	Hamilton Manufacturing Corp.	August 2022 – January 2025
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- Refactored legacy MVC admin platform to ASP.NET Core Web API and created APIs for a new React-based e-commerce PWA designed to replace outdated native apps.
- Improved report performance and server response times by up to 85% through optimized EntityFramework queries and reduced redundancies.
- Built an interceptor with Castle DynamicProxy to globally log method parameters during unhandled exceptions, eliminating redundant try/catch logging throughout the codebase and expediting bug fixes.
- Developed a messaging microservice using Azure queue storage and trigger functions to decouple email, SMS, and push notification delivery from core APIs, reducing UI response times from several minutes to seconds.
- Implemented rate limiting and reCAPTCHA authorization filters to inhibit rampant abuse of credit card tokenization and user account creation API endpoints.

Senior Database Engineer	Pitcher List	December 2019 – Present
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- Migrated staging and production PostgreSQL databases from ElephantSQL to Amazon RDS.
- Created and maintained large materialized views for consumption by Pitcher List and third-party React APIs.
- Developed new baseball statistics like [weighted Earned Strikes \(wES\)](#) and [Simple Pitching Estimation index \(speX\)](#) using Python machine learning libraries like scikit-learn and SciPy.
- Fixed Airflow bugs caused by dirty data, enhanced Flask API endpoints with query parameters for flexible data shaping, and integrated new database stats.

SKILLS

- **Languages:** C#, SQL, Python, JavaScript/TypeScript, HTML/CSS
- **Backend:** ASP.NET Core, Entity Framework Core, FastAPI, Flask, SQLAlchemy
- **Frontend:** React, SvelteKit, Jinja, Razor
- **Databases:** SQL Server, PostgreSQL, SQLite
- **Cloud:** AWS (S3, RDS), Azure (Queue Storage, Functions, Application Insights), FCM, Heroku
- **DevOps:** Git ([GitHub](#), [GitLab](#), [Bitbucket](#)), Azure DevOps, Jira

SOFTWARE PROJECTS

Spot The Plane (spottheplane.net)

- Aircraft trivia game built using FastAPI, React, PostgreSQL, and the *planespotters.net* photo API.

Tracey Nicholas Art (traceynicholas.com)

- Developed an e-comm site and CRUD admin dashboard with FastAPI, SvelteKit, and PostgreSQL.
- Integrated PayPal SDK for purchasing and Cloudinary for image storage and management.

EDUCATION

Bowling Green, OH <ul style="list-style-type: none">• M.M. in Music Composition	Bowling Green State University	Sept 2014 – May 2016
Ypsilanti, MI <ul style="list-style-type: none">• B.Sc. in Music (<i>Cum Laude</i>)	Eastern Michigan University	Sept 2007 – Dec 2013

INTERESTS

Classical music (*Brahms, Bartok, Faure*), baseball, fantasy baseball, football, data science, woodworking, art-house cinema (*David Lynch, Stanley Kubrick*), epistemology (*Karl Popper, David Deutsch*), aviation