David Bry

Senior Software Engineer

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Senior full-stack software engineer with nearly two decades of experience specializing in C#, .NET, Java, SQL, and JavaScript. I've driven over $300k in new sales and cost savings, saved hundreds of hours through operational improvements, and mentored junior engineers while designing clean APIs and building automated CI/CD pipelines. I learn new languages and frameworks quickly and have recent experience with AI-assisted development.

Technical Skills

Languages: C#, Java, JavaScript, TypeScript, SQL, HTML5, CSS3

Frameworks & Libraries: .NET Core, ASP.NET, ASP.NET Core, Spring Boot, React, Node.js, Express

Testing & DevOps: MSTest, JUnit, Cypress, Vitest, GitHub Actions, GitLab CI/CD, Docker

Databases: SQL Server, PostgreSQL, SQLite, Elasticsearch, Entity Framework

Other Tools: Git, Netlify Cloud, Vercel, GitHub Copilot, Claude Code, Bash

Professional Experience

Software Engineer & Curriculum Developer | Tech Elevator | Remote   Jan 2020 – Dec 2025

- Architected API and database capstone project modeled after Venmo, in dual tech stacks (C#/ASP.NET/SQL Server and Java/Spring/PostgreSQL), driving improved engagement and module completion rates for 2,000+ learners.
- Designed automated CI/CD pipelines and curriculum versioning system that reduced deployment time from 3 days to 3 hours, enabling rapid curriculum iteration for 800+ concurrent students across multiple programs and start dates.
- Built AI-assisted pipeline to generate and validate Check-For-Understanding questions, compressing an 8-month timeline to under 3 months while identifying and correcting errors in existing curriculum materials.
- Engineered automated testing and scoring pipelines using custom Docker images and multiple testing frameworks, reducing per-instructor grading workload by 15+ hours per week and enabling more direct student support.
- Implemented scalable Express-based APIs as teaching resources for lab exercises, giving learners hands-on experience consuming REST endpoints and working with distributed systems.
- Developed React and ES6 curriculum modules to replace legacy Vue content, ensuring students learned modern industry-standard technologies.
- Mentored junior developers through training, pair programming, and constructive code reviews, helping them build confidence and level up their skills.

Independent Developer | Bry's Marine | Remote | brysmarine.com   Oct 2019 – Dec 2019

- Rebuilt website with lightweight CMS, achieving 90+ Lighthouse scores in performance, best practices, and SEO.

Lead Software Engineer / Software Engineer | Traffic Safety Store | Hybrid / Philadelphia, PA   Jul 2016 – Sep 2019

- Implemented new interface for road construction signs using ASP.NET and React, expanding the product catalog to 200+ new signs and generating $150k+ in additional annual revenue.
- Built interactive custom sign builder with JavaScript and Cloudinary, driving $60k+ in new revenue within six months and significantly improving conversion rates in A/B tests.
- Developed live search and filtering for safety vest products using JavaScript and Elasticsearch, increasing average order value by $500+ on safety vest purchases.
- Led 3-person team to launch admin site with ASP.NET and React, unifying phone and online orders across 4 storefronts and enabling bulk product management for inventory, pricing, and promotions.

IT Applications Developer | Dechert LLP | Philadelphia, PA   Jan 2011 – Jul 2016

- Architected and developed ASP.NET system to automate conflict-of-interest document restrictions in iManage document management platform, saving legal and IT teams 20+ hours per week.
- Built searchable skills database using ASP.NET and JavaScript, enabling legal teams to find internal translators and subject matter experts and saving $25k+ annually in external consultant fees.
- Integrated Okta and Box REST APIs to automate application provisioning and external document sharing, reducing manual work for Help Desk and IT Operations teams.

Associate Software Engineer | Coventry First | Fort Washington, PA   Feb 2010 – Jan 2011

- Enhanced ASP.NET and SQL applications for Contract Analysis department by expanding data capture and optimizing keyboard navigation, helping analysts process contracts more quickly and reducing daily backlog by 20%.

Applications Developer | Capmark Financial Group, Inc | Horsham, PA   Jan 2007 – Feb 2010

- Migrated mission-critical data transfer process from legacy Perl script to a .NET Windows Service, improving reliability and reducing manual reruns by 80%.

Projects

BryTech Portfolio | brytech.dev

- Built modern portfolio site using Cursor AI, Next.js, Tailwind CSS, and Vercel deployments, learning AI-assisted development workflows and TypeScript through iterative prompting and code review.

Pick For Me TV | pickforme.tv

- Built random TV episode picker using Vue.js, Express, and TMDB API to recreate the experience of stumbling onto favorite shows while channel surfing.

Education

Temple University | College of Science & Technology | Philadelphia, PA

- Bachelor of Science, Major: Information Science & Technology, Minor: Business Administration
- Graduated *magna cum laude*

Additional Information

Eagle Scout Award | Boy Scouts of America