

David Bry

Senior Software Engineer

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Senior full-stack software engineer with nearly two decades of experience in C#, .NET, Java, SQL, JavaScript, and React. My applications have supported over 10,000 users and driven \$300k+ in new sales and cost savings. I've built automation that saved hundreds of hours and leveraged AI to accelerate project delivery. I've led and mentored engineers through complex projects and career development. I love learning new languages and frameworks and pick them up quickly.

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 personal 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](#)