

David Bry

Senior Software Engineer

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Senior full-stack engineer and team mentor with a strong foundation in building backend platforms that power consumer-facing experiences and drive outcomes such as 30% conversion lifts, \$50k+ in new revenue, \$25k+ in savings, and 20+ hours/week in operational savings. Proven leader in architecting mission-critical systems, mentoring engineers, and guiding cross-functional teams to deliver scalable solutions. Deep expertise in C#, .NET, ASP.NET, Spring Boot, SQL, React, RESTful API design, CI/CD, automated testing, containerization, and modern AI-driven developer tooling.

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 - present

- Architected and delivered a full rewrite of the **SPA** curriculum using **React** and modern **ES6/JSX** patterns, **improving employer alignment** and contributing to measurable **gains in graduate placement** and salary outcomes.
- Led design and implementation of a mobile-payment capstone project using **ASP.NET**, **Spring Boot**, **SQL Server**, and **PostgreSQL**, improving module completion rates and adopted across **20+ cohort cycles** and **2,000+ learners**.
- Developed and automated **CI/CD pipelines** and **curriculum versioning systems** that cut deployment time from **72 hours to 3 hours**, dramatically **improving operational reliability** for **500+ concurrent students** across multiple cohorts.
- Designed and collaborated on an **AI-assisted content pipeline** using multi-agent workflows to generate and validate Check-For-Understanding questions, automating a manual process and **improving quality and consistency at scale**.
- Built **automated testing** and scoring pipelines using custom **Docker** images with **MSTest**, **JUnit**, **Cypress**, **Mocha**, and **Vitest** tests, reducing instructor grading workload and **freeing up several hours each week** for direct student support.
- Created scalable **Express-based APIs** for real-world lab exercises, giving learners hands-on experience with **REST endpoints** and **improving comprehension** of distributed systems.
- **Mentored** junior developers, raising overall engineering quality through thoughtful **code reviews**, **architectural guidance**, and **best practices**.

Independent Full-Stack Developer | [Bry's Marine](#) | Remote

Oct 2019 – Dec 2019

- Rebuilt the company website with an accessible, **SEO-optimized CMS**, boosting **Lighthouse performance** and contributing to a **15% increase** in year-over-year sales.
- Site: brysmarine.com

Lead Software Engineer / Software Engineer | [Traffic Safety Store](#) | Hybrid / Philadelphia, PA

Jul 2016 – Sep 2019

- Led an Agile team to launch a new e-commerce admin platform using **ASP.NET**, **Razor**, and **React**, introducing new features including **integrated online and phone orders** and **improving product management efficiency**.
- Delivered an interactive sign designer using **JavaScript** and **Cloudinary APIs**, generating **\$50k+ in new revenue** and **higher conversion rates** in A/B testing.
- Built a new responsive interface for high-volume signs using **React**, **JavaScript**, and **ASP.NET**, enabling sales of **200+ new legends** and **increasing customer engagement**.
- Improved product category performance with live search, filtering, and enhanced **SEO** using **JavaScript**, **Elasticsearch**, and **ASP.NET**, driving a **30% conversion increase** in A/B tests.

IT Applications Developer | Dechert LLP | Philadelphia, PA

Jan 2011 – Jul 2016

- Architected and developed an ethical screen management system in **ASP.NET** to control access to **iManage** documents and workspaces, **saving legal and IT teams 20+ hours per week.**
- Built a skills and experience tracking system using **ASP.NET**, **JavaScript**, and **CSS**, enabling access to internal resources and **saving the firm \$25k+ annually.**
- Integrated Okta and Box **REST APIs** to expand Help Desk and IT Operations capabilities, **reducing user downtime** and **improving service responsiveness.**

Associate Software Engineer | Coventry First | Fort Washington, PA

Feb 2010 – Jan 2011

- Enhanced core **ASP.NET** and **SQL** applications for the Contract Analysis department, **increasing analyst throughput** and **reducing daily backlog by 20%.**
- Designed an annual maintenance workflow system in **ASP.NET** and **SQL Server Reporting Services** with approval tracking, **reducing process errors** and **simplifying cross-team coordination.**

Applications Developer | Capmark Financial Group, Inc | Horsham, PA

Jan 2007 – Feb 2010

- Upgraded major finance applications to **ASP.NET 2.0** and **SQL Server 2008**, implementing **new business features** and **tighter integration** with iManage systems.
- Migrated a mission-critical data transfer process to a **VB.NET Windows Service**, **improving reliability** and **reducing manual reruns by 80%.**

.NET Developer | School of Tourism & Hospitality, Temple University | Philadelphia, PA

Jun 2006 – Jan 2007

- Developed **ASP.NET** web applications that **improved knowledge sharing and remote collaboration** for hospitality management professionals.

Projects

BryTech Portfolio | brytech.dev

- AI-assisted portfolio built with **Next.js** and **Tailwind CSS**, featuring dark mode, animations, and **Vercel CI/CD** workflows.

Pick For Me TV | pickforme.tv

- Personal project that selects a random episode from a user-defined TV show list using **The Movie Database (TMDB)** API, **Vue.js** front end, and an **Express** backend.

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