David B. Davis

Senior Software Developer

Owatonna, Minnesota | Available for remote work | dbdavis256@gmail.com
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Professional Profile

Software developer since 2000, working in C++, desktop, mobile, and web applications. Recent work includes online learning platforms, custom WordPress plugins with AI integration, AI language-learning software, and 3D and VR worlds. Experienced in multilingual and internationally used products, translating client requirements into working features, and maintaining existing codebases.

Technical Skills

Languages: C#, C++, PHP, JavaScript, TypeScript, Java, Python, SQL, Objective-C
Platforms: ASP.NET Core, ASP.NET MVC and Web Forms, Entity Framework, Unity, iOS, Android, OpenGL ES
Web: WordPress, LifterLMS, React, Angular, HTML, CSS, AJAX, REST and SOAP APIs
AI: OpenAI and Anthropic APIs, speech and large language model integration
Systems: SQL Server, Linux, Windows Server, IIS, Cloudflare Workers, Git

Professional Experience

Davis Enterprises of Steele County, LLC Jul 2025 - Present
Senior Software Developer | Owatonna, MN

- **Dawnlight Courses** (ongoing): built and maintain the WordPress and LifterLMS platform for a two-course, 96-lesson American History curriculum for the high school and homeschool market: course structure, enrollment and checkout, quizzes, certificates and achievement badges, SEO, accessibility, and mobile layouts. Try a free lesson at dawnlightcourses.com.
- Developed a custom WordPress plugin that gives students AI feedback and a grade on each lesson's writing assignment (OpenAI and Anthropic), with per-lesson attempt limits, daily request caps, instructor reports, and a 180-test automated test suite.
- Researched, license-verified, and integrated public-domain historical images across all 96 Dawnlight lessons.
- **TalkboardVR** (talkboardvr.com): an AI language-learning app built with Unity and ASP.NET Core, integrating multiple speech and large language model providers. Live in public beta for desktop browsers and closed beta on Meta Quest.
- Built Deep Space Robot Game for Meta Platforms with TypeScript and Blender, playable on Meta Quest VR, mobile, and desktop.
- Created a custom Divi child theme with accessibility and SEO improvements for kirarosner.com, and built motherisathome.com with AJAX content loading, streamlined publishing, and email marketing.

Overland Sheepskin Co., Inc. Oct 2021 - Jul 2025
Senior Software Developer | Fairfield, IA

- Developed overland.com using ASP.NET and SQL Server, including responsive interfaces, cross-platform testing, performance optimization, security, and Angular-based catalog management tools.
- Integrated payment and third-party services including Apple Pay, PayPal, Emergepay, Facebook, and Google services; used Cloudflare Workers to proxy, cache, and lock high-resolution images, stopping copyright infringement that had caused significant financial loss.
- Implemented accessibility improvements aligned with WCAG 2.2, including ARIA attributes, color contrast, keyboard navigation, focus behavior, accessible forms, and screen-reader announcements.

Genetic ID NA, Inc. Aug 2011 - Sep 2021
Senior Software Developer | Fairfield, IA

- Developed the SupplyTrak engine with ASP.NET Web Forms, Entity Framework, MVC, and Dynamic Data, supporting supply-chain compliance applications with customers in almost every country.
- Integrated databases and SOAP and JSON services, including a FileMaker ODBC driver written in C++; developed and maintained seven WordPress and Kentico CMS websites.

- Implemented payment processing, custom features, CMS upgrades, and SEO; configured production and development Windows Server, IIS, SSL, and SQL Server environments; interviewed and trained new employees.

Iowa Golden Data, Inc. Apr 2010 - Aug 2011
Senior Software Developer | Fairfield, IA

- Developed ZBot 3D, a 5-star-rated iOS action game, using C++, Objective-C, and OpenGL ES, with 3D physics and peer-to-peer multiplayer.
- Developed Java applications for Android, including Asteroid Death, which received more than 6,000 downloads.

The Trane Company Mar 2007 - Jan 2010
Senior Software Developer | White Bear Lake, MN

- Developed enterprise business intelligence, pricing, forecasting, and costing tools using C#, SQL Server, SAS, Microsoft Office, and MDX, including an application that became a primary measure of pricing impact.
- Built an MDX business-metrics reporting system that another team had judged impossible, and found and fixed the major issues that let a web-based enterprise analysis system go live.
- Migrated business data systems from Access to SQL Server and integrated reporting and analysis with SharePoint and Oracle.

Coolcall.com Jan 2000 - Apr 2002
Software Engineer | Fairfield, IA

- Developed a C++ feature on-site at a voice gateway vendor's Silicon Valley headquarters that shipped with their product, generating $60,000 in consulting revenue; built middleware and fault-tolerant multiprocess server applications.
- Designed and managed international VoIP networking for points of presence in Spain, Greece, Senegal, Malaysia, and New Jersey; led design and integration of billing and provisioning systems, and led technical seminars for experienced developers.

Additional Development Contracts

Miller Associates, Inc. (contract) Aug 2010 - Dec 2010
Verified Pfizer's "Advanced RCC Prognosis" iOS medical app using UI Automation, finding bugs that would have affected patient prognoses; tested medical web applications using Python and JavaScript.

Earlier web development 2002, 2006 - 2007
Built customer portals, online bill payment and signup workflows, and custom CMS features for State ISP, Comprehensive Life Settlements Agency, and Frontline Printing & Design using LAMP, Java, PHP, and SOAP; administered Linux and BSD servers.

Education

University of Iowa | Biomedical Engineering coursework | 2003 - 2005 | GPA 3.91 / 4.00

Credentials

LPIC-1 Linux Professional Institute Certification Level 1 | HSK Level 2 Mandarin

Personal Interests

Reading and writing Mandarin Chinese; piano, guitar, lap steel, drums, and other percussion.