

David B. Davis

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OBJECTIVE

Full-time software development role.

SUMMARY

- Twenty-one years software engineering experience
- Full-stack web developer
- Responsible for implementing global voice over IP network
- LPIC-1 (Linux Professional Institute Certification Level 1)

TECHNICAL SKILLS

Languages: C#, C++, Objective C, Javascript, SQL, Typescript, Visual Basic, PHP, HTML + CSS

Concepts: Object Oriented Programming, Web Development, Linux and Windows Administration

EXPERIENCE

Senior Software Developer

July 2025 – Present

Davis Enterprises of Steele County, LLC, Owatonna, Minnesota

- Production of 3D gaming worlds with TypeScript, Blender and other tools for Meta Platforms Inc. Deep Space Robot Game available on Meta Quest VR, mobile and desktop.
- TalkboardVR (talkboardvr.com) is live in public beta for desktop browsers and in closed beta for Meta Quest. An AI language learning app built with Unity and ASP.NET Core, integrating multiple speech and LLM providers.
- Completed contract for curriculum publisher Liberty Tree University: researched, license-verified and integrated public domain historical images into a 96-lesson American History course (101 and 102) for the high school and homeschool market.
- WordPress development for kirarosner.com — created a custom Divi child theme with design fixes, improved accessibility and SEO. Created motherisathome.com with AJAX and streamlined content creation. Email marketing configuration and SEO.

Senior Software Developer

October 2021 – July 2025

Overland Sheepskin Co., Inc., Fairfield, Iowa

- Development of retail shopping site overland.com with ASP.NET. Full-stack web development with responsive design, animation, cross-platform testing and optimization, security, MS SQL, GitHub Copilot assisted programming.
- Ensured accessibility compliance according to WCAG 2.2 guidelines including ARIA roles and attributes, colour contrast, keyboard navigation and focus state, accessible forms, and optimization for screen reader announcements.
- Integrated a large number of third party services such as Facebook, Google Cloud, Apple Pay, PayPal and Emergepay. Updated major versions of Google Analytics and other services.
- Prevented copyright infringement which had caused significant financial loss. Used Cloudflare Workers to proxy, cache and lock high resolution images.
- Development of e-commerce catalog management tools using the Angular framework.

Senior Software Developer

August 2011 – September 2021

Genetic ID NA, Inc., Fairfield, Iowa

- Development of the SupplyTrak engine using ASP.NET Web Forms, Entity Framework, MVC and Dynamic Data. This engine supports multiple supply chain compliance applications with customers in almost every country.
- Database integration from a variety of sources including an ODBC driver for FileMaker written in C++, and other SOAP and JSON web services.
- Web development with WordPress and Kentico, an ASP.NET based CMS: fastidkit.com, gmotesting.com, cert-id.com, cert-id.eu, foodchainadvisors.eu, globalworkplacesafety.com, genetic-id.com.
- Payment processing, SEO, design, major version upgrades, user and developer training, custom menus, chat with customer service and other custom features on Kentico CMS.
- Installed and configured Windows Server 2012 with IIS, SSL encryption and SQL Server on production and development web servers.
- Interviewed and trained new employees.

Senior Software Developer

April 2010 – August 2011

Iowa Golden Data, Inc., Fairfield, Iowa

- Development of ZBot 3D, a highly rated (solid 5 star) action game for Apple iOS developed using OpenGL ES, Objective-C and C++. Features include sophisticated 3D physics, innovative gameplay and peer-to-peer multiplayer.
- Development of Java applications for Android OS using Eclipse. Released Asteroid Death on the Android Market, which was rated well and received 6000+ downloads.

Senior Software Developer

August 2010 – December 2010

Miller Associates Inc., Fairfield, Iowa

- Verification of a medical application ("Advanced RCC Prognosis" by Pfizer) for Apple iOS using the UI Automation framework for iPhone. Found bugs that would have had an impact on patient life expectancy prognoses.
- Verification of medical web applications using Python and Javascript.

Senior Software Developer

March 2007 – January 2010

The Trane Company, White Bear Lake, Minnesota

- Development of enterprise business intelligence applications using SQL Server 2005 and Microsoft Office. Created an application that became a primary measure of pricing impact.
- Developed a suite of forecasting applications using SAS and Microsoft Office.
- Development of SQL reports for analysis and validation. Discovered and solved major issues in a web based enterprise analysis system, allowing it to go live.
- Development of costing tools for global enterprise systems using C#.
- Migration of business data systems from Microsoft Access to Microsoft SQL Server using its integration, analysis and reporting services, integrated with SharePoint and Oracle.
- Development of a business metrics reporting system using MDX that was declared impossible by a competing team of Java developers including PhDs.

Web Developer

January 2006 – February 2007

State ISP, Ottumwa, Iowa

- Programming and design of the stateisp.net web portal system including online bill payment, signup for service, customer administration, marketing systems, tourism photo galleries and other services using LAMP technologies.
- Integration of billing systems and network provider APIs with Java.
- Configuration and administration of Linux and BSD network servers.
- Design and programming of a commercial class reunion hosting site.

Web Developer

September 2006 – October 2006

Comprehensive Life Settlements Agency, Hoffman Estates, Illinois

- Design and development of a CMS to meet customer requirements.
- Integration of Adobe PDF documents with PHP using SOAP for live logging of customer data.

Web Developer

June 2002 – October 2002

Frontline Printing & Design, Fairfield, Iowa

- Code development for frontlineprinting.com including pricing estimates and user accounts.
- Desktop support and network security.

Software Engineer

January 2000 – April 2002

Coolcall.com, Fairfield, Iowa

- Designed and managed data networking for VOIP points of presence in Spain, Greece, Senegal, Malaysia, New Jersey and other locations.
- Spent two weeks at the voice gateway vendor's headquarters in Silicon Valley developing a significant feature in C++ which soon shipped with their product, bringing \$60k in consulting revenue.
- Led seminars and training of experienced developers on topics such as regular expressions and server-side web development.
- Led design, implementation and integration of critical business systems such as billing and provisioning.
- Development of middleware, tools and fault-tolerant multiprocess server applications.

EDUCATION

University of Iowa, Iowa City, Iowa

January 2003 – January 2005

Major: Biomedical Engineering. G.P.A. 3.91 / 4.00

CERTIFICATIONS

- LPIC-1 — Linux Professional Institute Certification, Level 1
- HSK Level 2 — Mandarin Chinese proficiency

PERSONAL INTERESTS

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

References available on request.