

</> Karl Christopher Alcorn

Software [Developer | Engineer | Architect]

CONTACT

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SKILLS [YEAR FIRST USED]

.NET Core [2017]	CSS [2004]	MySQL [2001]	Silverlight [2015]
Angular [2023]	DevOps/CI/CD [2020]	Node.js [2020]	SQL Server [2001]
ASP.NET [2017]	Docker [2021]	Perl [1999]	TypeScript [2020]
Asterisk PBX [2012]	Flutter/Dart [2021]	PHP [2000]	Visual Basic [1998]
AWS [2020]	HTML [1998]	PostgreSQL [2008]	VB.NET [2006]
Azure [2023]	Java [2004]	PowerShell [2009]	WCF [2015]
Bash [1998]	JavaScript [1998]	React [2018]	Web API [2015]
C# [2006]	Linux [2000]	Redis [2020]	Windows Server [2001]
C++ [2003]	Magento [2012]	Serverless [2020]	WordPress [2006]

CERTIFICATIONS

CompTIA Security+	MTA 349: Windows OS Fundamentals
CompTIA Project+	CIW v5 Database Design Specialist
CompTIA Network+	CIW JavaScript Specialist
CompTIA A+	CIW Web Design Specialist
Microsoft Certified Professional	CIW Web Development Professional
MTA 361: Software Dev. Fundamentals	CIW Perl Specialist
MTA 365: Windows Server Admin. Fundamentals	CIW Web Foundations Associate

EXPERIENCE

Principal Software Architect @ Alcorn Technologies, LLC.

May 2019 - Present

- Contracted as Chief Software Architect for a SaaS medical start-up, managed and mentored an international team, and assisted in scaling their software offering nationwide.
- Performed due-diligence audits of both source code and development teams for multiple start-ups and enterprise clients, including some collaboration with both Microsoft and IBM software developers.
- Contracted as Director of Technology/Interim CTO on a venture involving the American College of Gastroenterology, with an emphasis on auditing their MVP, assessing and managing the dev. team, and identifying and protecting their intellectual property.

- Contracted by a Cloud AI SaaS startup using LLMs to automate medical insurance claims, to oversee the process of turning an MVP into a production ready system capable of scaling nationwide.
- Created a two-way ETL system to synchronize HIPAA protected data stored on-premises to/from the Cloud in a multitenant environment.
- Created several small POC projects for the US Department of Veterans Affairs to demonstrate the utility and feasibility of modern technologies such as Angular, Azure Functions, Cosmos DB, etc.
- Modified long-polling distributed systems to instead use Web Sockets to connect to the Cloud in order to reduce load and costs.
- Created a brandable and highly reusable white-label Mobile App for use by labor unions using Flutter/Dart.
- Implemented DevOps policies including CI/CD pipelines using Bitbucket, GitHub, and GitLab.
- Reverse-engineered a salted security hash to allow insertion into a third-party MySQL database as if the original software were performing the INSERT operations.

Automation Analyst @ Century Aluminum Co.

Oct 2017 - May 2019

- Lead efforts to consolidate and modernize software infrastructure across three plants.
- Created a web application for monitoring multiple carbon furnaces, valued at \$30M+ each, using React, ASP.NET MVC, Web API, SQL Server, etc.
- Created a web application for Layered Process Audits to allow management to track productivity at multiple levels, identify discrepancies, and opportunities for cost savings.
- Maintained and updated legacy systems, including working with interfaces to hardware such as crucible scales, using VB.NET, Java, PHP, Apache Tomcat, MySQL, etc.

Software Dev. › Senior Software Dev. › Lead Developer @ SS&C Technologies, Inc.

Aug 2015 - Sep 2017

- Implemented new features and bug fixes on C/C++ financial software with 30+ million lines of code.
- Created a modern, responsive, Corporate Actions web-based product using C#, ASP.NET, Web API, WCF, SQL Server, etc.
- Reduced build times by 75% by scripting and automating the 120+ step build process.
- Acted as SCRUM Master: held daily meetings, retrospectives, and worked with product owners to create user-stories and estimates.

Systems Consultant / Manager @ CGM Computer Consulting, LLC.

May 2006 - Jul 2015

- In charge of all day-to-day operations across all disciplines (dev, networking, tech support, etc.)
- Technical lead for all in-house software development efforts.
- Created hundreds of desktop and web applications per client specifications, including desktop software, basic websites, WordPress websites and custom plug-ins, e-commerce and membership websites, etc.

IT Manager @ Web King Internet Services, Inc.

Jul 2004 - May 2006

Systems Consultant @ CGM Computer Consulting, LLC.

Jul 2002 - Jul 2004

IT Team Member @ Red Geranium Enterprises, Inc.

Jun 2001 - Jul 2002



EDUCATION

Bachelor of Science, IT - Software Emphasis @ Western Governors University [128 of 132 CUs]

2013 - 2019

Software and Applications Programming @ ITT Technical Institute

2002 - 2004