Cliff Hall
Software Architect

CONTACT
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SUMMARY

Senior software architect, developer, and tech lead focused on solving domain-specific problems with artificial intelligence.

Extensive experience working remotely and leading global teams distributed across multiple time zones.

CURRENT SKILLS

Languages, Frameworks, and Platforms
Node.js, JavaScript, Typescript, React, Firebase, Electron, PureMVC, OpenAI, Google Cloud Platform, Model Context Protocol

SELECTED PROJECTS

PlotRocket	plotrocket.app
PureMVC	puremvc.org
Page Fight	page-fight.com
Culturalyst	culturalyst.com
Boson Protocol	bosonprotocol.io
Sinewav3	app.sinewav3.com
Fismo	fismo.xyz
Nifty Cannon	niftycannon.app
CustomShow	customshow.com
ISPAN	lmt.co/2LwQ80n
WeightWatchers	youtu.be/AqfXZDvdbr4

PUBLICATIONS

Technical Books
Actionscript Developers Guide to PureMVC
Building on Ethereum with Solidity and React

RECOMMENDATIONS

"Cliff stepped into an ongoing, $7 million effort with over 1500 pages of specifications and requirements and began contributing on day one. He took over development of what had been identified as the program's biggest barrier to on-time delivery, the user interface, and transformed it into a polished, ahead-of-schedule component that our end users were ecstatic for. Customers with a wide base of experience with diverse Common Data Link terminals have said that Cliff's user interface is the best looking, most intuitive interface they have ever used on such a device. I could not recommend Cliff Hall and Futurescale more highly than I do. Futurescale will absolutely deliver superlative results in a timely manner."
*- Brian Connell, Project Lead, **Avtec Systems***

"Cliff is one of the most thorough and detail-oriented developers I've had the pleasure of working with. He asks all the right questions upfront and then just delivers the right product at the right time without requiring any further guidance or oversight. He manages his time really well, doesn't shy away from learning new technologies, and does the work with honesty and diligence. I would recommend Cliff to anyone who wants to build a solid product and has no time for micro management."
*- Aman Thind, Executive Director, Electronic Trading & Real-time Analytics, **Morgan Stanley***

"Cliff is an eclectic, high-energy guy whose off-the-wall thinking can turn an insoluble problem into a cakewalk. We worked on a variety of projects together, every one a pleasure. He's a real trouper who gets the job done."
*— Jos'h Fuller, Animator / Developer, **ZFx, Inc***

EXPERIENCE

Futurescale, Inc   **2004-Present**
CEO, Principal Consultant

Anthropic / Model Context Protocol   *Open Source* ~ **Mar 2025-Present**
Maintainer, Steering Committee Member   React, Typescript
After adding several high-value features to the project, I was invited by the core team at Anthropic to join and participate in guiding the expansion of the protocol and tools. I am primarily focused on the Inspector project, but contribute in all areas.

Futurescale / PlotRocket   *East Tennessee* ~ **Jan 2023-Present**
AI Research and Development   *Node.js. Javascript, Typescript,* React, Firebase, GPT-4
Combined AI with industry practices for creating episodic television. Plotrocket produces a series bible and episode outline down to the scene and beat. The AI collaborator can give story-aware suggestions for every story and world-building element.

Culturalyst   *New Orleans, LA* ~ **Mar 2017-Present**
CTO, Architect, Developer   Angular, React, Typescript,, Firebase, Node.js, GPT-4
Built a hyper-local directory connecting artists with grant and performance opportunities. Used AI to gather artist opportunities from around the web, classify and normalize into our taxonomy, and direct them to subscribing artists, Replaced keyword search with a data-aware AI chatbot called the Concierge, using streaming responses.

Redeemeum UK Limited   *Taunton, UK* ~ **Sept 2021-Dec 2022**
Consultant, Architect, Tech Lead   Solidity, Hardhat, Node.js, Mocha
Led a small, laser-focused team in delivering a completely new modular and audited Boson Protocol V2 architecture for self-serve, decentralized commerce at scale.

Dapp Wizards, LLC DBA nft42   *Boise, ID* ~ **July 2019-Oct 2020**
Consultant, Architect, Tech Lead   Solidity, React, Firebase, Node.js
Built *Avastars*, the first NFT project to put all art and metadata on-chain. Over 1M USD volume in the first 6 months of operation. Devised unique minting and play-to-earn mechanics.

Morgan Stanley   *New York, NY* ~ **May 2013-Nov 2015**
Consultant, Developer, Core Team Lead   ActionScript, Flex, Javascript, Angular 1.x
Led a Flex to HTML5 migration of Matrix, a modular financial trading and analysis application.

More Satisfied Clients and Agencies   **2004-Present**
Adobe Systems, Assurant, Avtec Systems, Effective UI, Cisco Systems, Dorado, Google, JITC, The Jockey Club, J. P. Morgan Chase, Harley Davidson, Heretic Ventures, IndeeLabs, Lala Labs, Lockheed Martin, ManyOne Networks, NYK Logistics, Pass On, KnownOrigin, State Street Bank, Reputation.com, Ropeadope Records, Sales Graphics, Seen.Haus, Universal Mind, US Strategic Command, Verizon Wireless, Weight Watchers International

Register.com, Inc   *New York, NY* ~ **2001-2004**
Senior Developer, Tech Team Lead   Java, J2EE, EJB, Perl, JBoss. Tomcat, Red Hat Linux

About.com   *New York, NY* ~ **1999-2001**
Application Developer   Perl, Oracle, MySQL, SQL Server, BSD UNIX

Prodigy Communications   *White Plains, NY* ~ **1998-1999**
Developer, Y2K Test Team Lead   C++, Mercury WinRunner, LoadRunner

Cimtek Medical Company   *Johnson City, TN* ~ **1997-1998**
CTO, Software Architect   Visual Basic, Quark, IIS, NT Server

Zfx / Zeta Image   *Kingsport, TN* ~ **1994-1997**
Animator, Developer, Webmaster   Perl, Prisms, Houdini, SGI IRIX, Novell UnixWare

Bridge Computer Systems   *Gray, TN* ~ **1989-1994**
Programmer, Analyst   Oracle, RISC OS, SCO UNIX, UniBASIC

Professional Data Services   *Johnson City, TN* ~ **1988-1989**
Developer, Technical Writer   Datapoint DataBUS

Data Management Group   *Johnson City, TN* ~ **1985-1987**
Co-Founder, Programmer, Analyst   80x86 Assembly, QuickBASIC, DOS

Data Equipment Supply   *Downey, CA* ~ **1982-1984**
Game Programmer   6502 Assembly, Commodore 64, Vic-20, PET