

Cliff Hall

Software Architect

CONTACT

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github.com/cliffhall ~ linkedin.com/in/cliff

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/AqfXZDvdb4

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

CEO, Principal Consultant

2004-Present

Anthropic / Model Context Protocol

Open Source Maintainer, Steering Committee Member

Open Source ~ Mar 2025-Present

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

AI Research and Development

East Tennessee ~ Jan 2023-Present

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

CTO, Architect, Developer

New Orleans, LA ~ Mar 2017-Mar 2025

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.

Redeemum UK Limited

Consultant, Architect, Tech Lead

Taunton, UK ~ Sept 2021-Dec 2022

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

Consultant, Architect, Tech Lead

Boise, ID ~ July 2019-Oct 2020

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

Consultant, Developer, Core Team Lead

New York, NY ~ May 2013-Nov 2015

ActionScript, Flex, Javascript, Angular 1x
Led a Flex to HTML5 migration of Matrix, a modular financial trading and analysis application.

More Satisfied Clients and Agencies

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, SeenHaus, Universal Mind, US Strategic Command, Verizon Wireless, Weight Watchers International

2004-Present

Register.com, Inc

Senior Developer, Tech Team Lead

New York, NY ~ 2001-2004

Java, J2EE, EJB, Perl, JBoss, Tomcat, Red Hat Linux

About.com

Application Developer

New York, NY ~ 1999-2001

Perl, Oracle, MySQL, SQL Server, BSD UNIX

Prodigy Communications

Developer, Y2K Test Team Lead

White Plains, NY ~ 1998-1999

C++, Mercury WinRunner, LoadRunner

Cimtek Medical Company

CTO, Software Architect

Johnson City, TN ~ 1997-1998

Visual Basic, Quark, IIS, NT Server

Zfx / Zeta Image

Animator, Developer, Webmaster

Kingsport, TN ~ 1994-1997

Perl, Prisms, Houdini, SGI IRIX, Novell UnixWare

Bridge Computer Systems

Programmer, Analyst

Gray, TN ~ 1989-1994

Oracle, RISC OS, SCO UNIX, UniBASIC

Professional Data Services

Developer, Technical Writer

Johnson City, TN ~ 1988-1989

Datapoint DataBUS

Data Management Group

Co-Founder, Programmer, Analyst

Johnson City, TN ~ 1985-1987

80x86 Assembly, QuickBASIC, DOS

Data Equipment Supply

Game Programmer

Downey, CA ~ 1982-1984

6502 Assembly, Commodore 64, Vic-20, PET