# Cliff Hall

# Software Architect

CONTACT

2004-Present

cliff@futurescale.com 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

JavaScript, Python, Solidity, React, Hardhat, ethers, Firebase, OpenAI, Vertex AI, Ollama, Huggingface

#### SELECTED PROJECTS

**PlotRocket** plotrocket.app Loop Dust loopdust.art **Building on Ethereum** amzn.to/3iDsG1g **Boson Protocol** bosonprotocol.io **Avastars** avastars.io Fismo fismo.xyz **Nifty Cannon** niftycannon.app Culturalyst culturalyst.com **PureMVC** puremvc.org 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

CEO, Principal Consultant

**PLOTROCKET** Private Endeavor ~ Jan 2023-Present

capable of planning multiple seasons of a television series down to the scene and beat.

React, Firebase, GPT-4, Gemini AI Research and Development Combined AI with a standard industry practice for creating episodic fiction, yielding a tool

**Redeemeum UK Limited** 

*Taunton, UK ~* **Sept 2021-Dec 2022** Consultant, Architect, Tech Lead Solidity, Hardhat, Node, is, 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.

New York NY ~ May 2021-Aug 2021 Seen.Haus

Consultant, Architect, Tech Lead Solidity, Hardhat, Node.js, Mocha Built fully upgradeable, open-source NFT marketplace contrat suite including primary and

secondary markets with a focus on phygital sales.

KnownOrigin Labs Cheshire. UK ~ **Feb 2021-Mar 2021** 

Consultant, Developer Solidity, Hardhat, Node.js, Mocha

After several spikes to find the most gas efficient proxy architecture, built artist collaboration and royalty splitting smart contracts, Expanded unit test suites.

Dapp Wizards, LLC DBA nft42 Boise, ID ~ July 2019-Oct 2020

Solidity, React, Firebase, Node.js Consultant, Architect, Tech Lead 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.

Culturalyst New Orleans, LA ~ Mar 2017-Present

Angular 1.x, Angular Material, Firebase, Node.js, GPT-4 Partner, Architect, Tech Lead Created the infrastructure for a web-based professional network connecting artists with grant and performance opportunities. Using AI to seek, classify, and import opportunities.

**Morgan Stanley** New York, NY ~ May 2013-Nov 2015

Consultant, Developer, Core Team Lead ActionScript, Flex, Javascript, Angular 1.x 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, State Street Bank, Reputation.com, Ropeadope Records, Sales Graphics, 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

White Plains, NY ~ 1998-1999 **Prodigy Communications** 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

Johnson City, TN ~ 1988-1989 **Professional Data Services** 

Developer, Technical Writer Datapoint DataBUS

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

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