

STEVE DEKORTE

Programmer and language designer with three decades of experience building systems software, developer frameworks and products, from NeXT computers in the 1990s to AI-powered web apps today. Creator of the Io programming language, lead developer of the peer-to-peer Bitmarkets marketplace, and author of open source systems libraries in C and Objective-C. Now building STRVCT, a naked objects framework for JavaScript, and Undreamedof.ai, an AI-powered tabletop RPG built on it.

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CURRENT WORK	STRVCT 2020 – Present
	Creator. Open source naked objects framework for JavaScript: one annotated domain model yields the UI, local-first IndexedDB persistence, cloud sync and a tool surface for AI agents, and runs headless in Node.js. strvct.net →
EARLIER WORK	Undreamedof.ai 2024 – Present
	Creator. An AI-powered tabletop RPG played in the browser on desktop and mobile: an AI game master narrates the story aloud and illustrates scenes as players act. Built end to end on STRVCT, which gained its narration, speech and image-generation features along the way. undreamedof.ai →
EARLIER WORK	Bitmarkets & Voluntary.net 2013 – 2015
	Lead developer. Specified and shipped a fully peer-to-peer marketplace for macOS with no trusted third parties, using Bitcoin for payments and Bitmessage for messaging, with mutual security deposits in place of escrow. Wrote the Bitmessage and Tor frameworks it required, released as the Bitpost and TorBar apps alongside Crypt. Bitmarkets white paper & protocol →
	Io Programming Language Created 2002
OPEN SOURCE	Creator and lead developer. Designed a small, pure object-oriented, prototype-based language with message-passing semantics, actor/coroutine concurrency and an embeddable C virtual machine, then grew it into an open source project with an addon ecosystem and outside contributors. Still maintained; recently ported to WebAssembly with an Io↔JavaScript bridge. Presented at the ACM Dynamic Languages Symposium (OOPSLA'05) and the Lua Workshop; wrote the book <i>Io</i> (2012); featured in <i>Seven Languages in Seven Weeks</i> . iolanguage.org →
	NeXT / OPENSTEP Developer 1990s
OPEN SOURCE	Worked with research groups and startups building software on NeXT computers, the start of a long focus on object-oriented systems and developer tools. As an OPENSTEP and WebObjects engineer at Inquisit, Inc., built a YellowBox business app with AppKit and EOF in three weeks and co-presented it at the Bay Area Apple-NeXT Group.
	Author of low-level systems libraries, mostly in C. They include an incremental garbage collector and a portable data structure library, both part of Io's runtime, and cross-platform coroutines via ucontext, fibers or setjmp. Other projects include the graph database servers vertexdb (C) and vertex.js (Node.js), the skip-list key-value store skipdb, ActorKit for actor-based concurrency in Objective-C, and colvmn, the static-site engine behind dekorte.com . github.com/stevedekorte →