Blockchain Development Services
Our Goal Is to Drive Your Web3 Project Success

ScienceSoft is a blockchain development company headquartered in McKinney, TX, with offices in Atlanta, GA, Europe, and the Gulf Cooperation Council.

34 years in IT industry
750+ IT professionals on board
5+ years average experience of our blockchain developers
Full-scale PMO 60+ certified PMs and Scrum Masters
Our Customers

62% of our revenue comes from 2+ year Customers.
Industry Expertise

We deliver specialized blockchain solutions for 30+ industries, including:

- Healthcare
- Banking
- Payment Services
- Lending
- Insurance
- Real Estate
- Retail
- Investment
- Manufacturing
- Transportation & Logistics
- Energy
- Professional Services

Manufacturing
Retail
Energy
Entertainment

Payment Services
Banking
Healthcare
General Blockchain Use Cases We Support

**Finance management**
Secure, fast, and cost-effective transactions. Immutable, GAAP-compliant bookkeeping.

**Fractional ownership**
The capability for partial asset trading, which enhances asset liquidity and drives its growth in value.

**Supply chain management**
End-to-end supply chain traceability, automated enforcement of multi-party agreements.

**Asset management**
Ensured proof of ownership for digital and physical assets, prevented fraud and counterfeiting.

**Ecommerce**
Improved order and payment traceability, faster and less costly payments.

**Identity and access management**
Irrevocable credential data, zero-knowledge proof encryption.

**Document management**
Secure document sharing and streamlined control over data manipulations.

**Collaborative decision-making**
Easy vote verification, secure vote storage, incorruptible vote counting.
Our Services

Our Services in Detail

Blockchain consulting
- Business analysis and market research
- Blockchain software conceptualization
- Architecture design
- Consulting on blockchain security and compliance
- Blockchain implementation project planning

Blockchain implementation
- Blockchain design and development
- Building smart contracts
- Blockchain integration
- Implementing blockchain oracles
- Quality assurance of blockchain software

Blockchain security
- Establishing blockchain infrastructure security
- Blockchain security testing
- Implementing blockchain DevSecOps

Blockchain support
- SLA-based maintenance and support of blockchain-based solutions
- Evolving blockchain software with new functional and non-functional capabilities
Our Happy Customers

Owing to ScienceSoft’s expertise in Blockchain-based software development, we chose them as a technology partner for the CoolWallet SDK development project. We were pleased with the outcomes of the project, as well as with the transparent and responsive collaboration from the vendor.

Yuhan Cheng, Business Development Manager

We turned to ScienceSoft for consulting on the end-to-end crypto wallet development. We highly appreciated ScienceSoft’s approach to consulting and their mature project management culture and would certainly recommend them as a reliable blockchain tech partner.

Jeff Cafolla, CMO and Co-Founder

For our project – building a Bitcoin mobile wallet on Cordova – we needed the assistance of a skilled mobile developer. The developer managed to quickly understand the existing code base and proceeded to modify and evolve it according to our requirements. Together, we released our app on time and budget.

Devin Hanchar, Director of Technology
Private Blockchain for Complete Traceability of the Multi-Tier Supply Chain

Customer

A US-based software product company developing innovative solutions.

Solution

Blockchain-based supply chain software that helps the Customer’s clients protect their supply chains from counterfeit goods and guarantee safety of transaction data. MVP delivery in 3 months.

Tools & Technologies

Hyperledger Fabric, Kubernetes, Docker, Golang, REST API.
Crypto Wallet Integration with NEAR Protocol

Customer

CoolBitX.

CoolBitX, a provider of digital solutions for crypto asset management and storage.

Solution

An SDK for crypto wallet product integration with NEAR Protocol, complete with detailed SDK and testing documentation for risk-free NEAR integration and facilitated product evolution.

Tools & Technologies

Golang, React.js, Web3, Solidity, OpenZeppelin, Polygon framework, LevelDB, AWS S3, IPFS.

Project details →
Rapid Front-End Development for a Mobile Bitcoin Wallet

Customer

A fintech company focused on user-centric software products.

Solution

JavaScript code reengineering and front-end development for a cross-platform Bitcoin wallet. Cooperation start in 5 days after the initial request.

Tools & Technologies

JavaScript, Cordova, BitcoinJS, CxJS.

Project details →
# Crypto Wallet Consulting to Drive 12x Development Cost Reduction

## Customer

**SECURE-DEFI**

Secure-DeFi, a fintech startup creating cryptocurrency products.

## Solution

Functional and architecture design of a crypto wallet product. A technical requirements specification and a detailed roadmap for crypto wallet implementation.

## Methodologies

Q&A sessions, functional decomposition, business requirements analysis, comparative analysis.

---

Project details →
Secure Crypto Payment APIs for the World's Leading Digital Entertainment Platform

**Customer**
A leading provider of innovative digital entertainment solutions.

**Solution**
Custom crypto payment APIs enabling secure payments in popular cryptocurrencies like Bitcoin, Litecoin, and Ether on the Customer’s online entertainment platform.

**Tools & Technologies**
Python, Django, Docker, MySQL, GitHub, Celery, FastAPI; Zephyr, Postman, Putty, Jenkins, DbVisualiser; Jira, Confluence, Slack.
# NFT Marketplace Consulting to Reduce Time to Market

## Customer
A US startup business considering stepping into NFT trading market.

## Solution
Introducing an optimal feature set, architecture and infrastructure design, and toolkit for the NFT marketplace. Marketplace prototyping to test its usability for buyers and sellers.

## Tools & Technologies
Golang, React.js, Web3, Solidity, OpenZeppelin, Polygon framework, LevelDB, AWS S3, IPFS.

[Project details →](#)
IT Consulting to Optimize the TCO of Blockchain-Based Agricultural Product Marketplace

**Customer**
A Singapore-based wholesaler of raw and processed agricultural products.

**Solution**
Technical design options for the blockchain-based agricultural marketplace, a step-by-step implementation plan for each option, and a white paper for investors and legal authorities delivered in 4 weeks.

**Tools & Technologies**
Polygon Edge, zkBNB, Golang, Magento (Adobe Commerce), PHP, React.js, TypeScript, Nginx, Next.js, PostgreSQL, Jenkins.

[Project details →](#)
Blockchain Solutions and Components We Deliver

- Blockchain networks
- Asset tokenization platforms
- Decentralized finance applications (DeFi dApps)
- Blockchain-based marketplaces
- Cryptocurrency wallets
- Cryptocurrencies
- Crypto tokens (fungible tokens, NFTs)
- Smart contracts
- Cross-chain bridges
- Decentralized autonomous organizations (DAOs)
Blockchain Networks

Types of blockchain networks ScienceSoft delivers:

Private networks
Data is stored and shared across a restricted network.

Public networks
Data is stored and shared on an unlimited number of nodes.

Hybrid networks
Certain types of data are shared privately while other types of data are public.

ScienceSoft is ready to develop a network from scratch or perform hard/soft forking of an existing blockchain platform.

Examples of network consensus mechanisms ScienceSoft implements:

- Proof-of-Work (PoW)
- Proof-of-Stake (PoS)
- Proof-of-Authority (PoA)
- Byzantine Fault Tolerance (BFT)
Asset Tokenization Solutions

Enterprise asset tokenization platforms
Decentralized platforms to tokenize and trade physical and digital business assets.

Asset tokenization mechanisms
Tokenized asset transaction ecosystems behind an existing app, like an asset management or an ecommerce platform.

Asset tokenization smart contracts
Protocols that automate execution of pre-programmed rules related to operations with tokenized assets.

Assets we help tokenize
- Real estate
- Regulated financial instruments
- Physical commodities (e.g., precious stones)
- Artworks and collectibles
- Intellectual property
- Medicines and drugs
Decentralized Finance Applications (DeFi dApps)

Some of the DeFi dApp use cases ScienceSoft covers:

- Cross-border payments
- Peer-to-peer (P2P) crypto lending
- Decentralized exchange (DEX)
- Insurance claim processing
- Initial coin offering
- Security token offering
- Staking and yield farming
- GameFi and metaverse
Blockchain-Based Marketplaces

**Ecommerce marketplaces**
Decentralized platforms enabling transparent exchange of goods between sellers and buyers.

**NFT marketplaces**
Blockchain-based platforms to mint, buy, and sell NFTs: art and collectibles, gaming assets, fashion goods, etc.

**Secondary market trading platforms**
Blockchain platforms providing secure trading opportunities across the private market assets, such as financial securities, agricultural commodities, commercial property, and technology.
## Cryptocurrency Wallets

### By the type of key storage
- Custodial wallets.
- Non-custodial wallets.

### By the number of wallet users
- Single-signature (singlesig) wallets for personal use.
- Multi-signature (multisig, shared) wallets for business use.

### By the number of cryptocurrencies supported
- Coin-specific wallets (e.g., Bitcoin, Ether, Ripple).
- Multi-currency wallets.

### By the method of storage
- Hot (software) wallets.
- Cold (hardware) wallets.
Cryptocurrency Solutions

**Cryptocurrency blockchains**
Secure peer-to-peer ecosystems to build cryptocurrencies on and facilitate control over crypto asset transactions.

**Cryptocurrencies**
Blockchain-based digital currencies that serve as a means of payment, exchange, storage, represent particular financial or governance rights.

**Cryptocurrency smart contracts**
Protocols that automate execution of pre-programmed rules related to operations with cryptocurrencies.

---

**Services we provide**

**Building** a custom blockchain platform and a native coin

**Customizing** an existing blockchain protocol (e.g., Bitcoin, Ethereum, Stellar)

**Developing** a new cryptocurrency on a third-party blockchain platform (e.g., Ethereum, Tezos, EOS)
Crypto Tokens

**Utility tokens**
Crypto tokens designed to provide consumers with a means of payment for products or services within a company’s platform or application.

**Security tokens**
Crypto tokens issued to raise funds and represent an investor’s digital share of equity, asset, or part of the revenue.

**Stablecoins**
Crypto tokens tied to the value of a fiat currency, commodity, other crypto asset, or retaining a stable price via a regulatory mechanism (e.g., of a central bank) to hedge against crypto volatility.

**Governance tokens**
Crypto assets that grant their holders the right to influence a cryptocurrency protocol, e.g., adding new features, remodeling token distribution, or changing a governance system.

**NFTs**
Programmable crypto assets that represent a certificate of authenticity and ownership of a unique digital or physical asset.
Smart Contracts

ScienceSoft creates smart contracts to effectively and securely automate any required industry-specific tasks.

- **Lending**: automated loan issuance for clients meeting credit eligibility criteria.
- **Insurance**: automatic claim payments when pre-agreed policy terms are met.
- **Logistics and Supply Chain**: asset tracking and automated payments.
- **eCommerce**: enhanced KYC practice and streamlined identity verification.
- **Healthcare**: guaranteed validity of patient data, prescriptions, etc.
- **Government**: voting systems that prevent fraud and improve turnout.

**We enable easy smart contract integration and updatability by implementing:**

- **Oracles** – interfaces to transfer off-chain data to/from the blockchain-hosted contracts.
- **Proxy contracts** – protocols for storing transaction data (to prevent it from being lost after updates) and running `delegatecall` to set a newer version of the contract as a default one.
Cross-Chain Bridges

ScienceSoft delivers cross-chain bridges to enable **compatibility of crypto assets across different blockchains** under the following scenarios:

- ✔ Transferring one asset between two chains.
- ✔ Transferring many assets between two chains.
- ✔ Transferring assets from one chain to multiple chains.
- ✔ Transferring multiple assets between different chains.
- ✔ Transferring assets across different chains under one dApp.
- ✔ Transferring NFTs between different chains.

**Types of the cross-chain bridge mechanisms** we implement:

- **Lock and mint**
- **Burn and mint**
- **Lock and unlock**
Decentralized Autonomous Organizations (DAOs)

**Protocol DAOs**
Focused on the governance of decentralized protocols and dApps.

**Collector DAOs**
Focused on collecting funds so that the community can have ownership of digital collectibles.

**Philanthropy DAOs**
Supporting social responsibility initiatives aimed to achieve a shared goal of delivering an impact on the web3 landscape.

**Investment DAOs**
Pooling the funds for investments in the blockchain startups, employing the same model as the traditional investment funds, but without any centralized control.

**Grants DAOs**
Used for funding and fostering new projects and ventures, particularly in the DeFi space.
Our Technology Competencies

Blockchain frameworks and networks

- Ethereum
- Hyperledger Fabric
- Graphene
- Bitcoin
- Solana
- EOS
- Tezos
- Stellar
- POA
- Avalanche
- NEAR
- Terra Luna
- Polkadot
- Fantom

Blockchain cloud services

- Amazon Managed Blockchain
- IBM Blockchain

Smart contract programming languages

- Solidity
- Rust
- Vyper
- WA

Front-end programming languages

- HTML
- CSS
- JS
- React
- Angular
- Vue.js
- Meteor
- Ember
- Next.js

DevOps

- Docker
- Kubernetes
- Red Hat OpenShift Container Platform
- Mesos
- Ansible
- SaltStack
- Terraform
- HashiCorp Packer
Perks of Blockchain Development with ScienceSoft

Risk-free project start
- Analyzing the economic feasibility of blockchain development.
- Providing high-level cost and ROI estimates.
- PoC development to test the viability of the blockchain solution.

Prompt development
- Quick project start (1-2 weeks).
- MVP development in 3+ months.
- Frequent releases (every 2-4 weeks).

Focus on security
- Protecting the blockchain solution from malicious user activities, routing attacks, phishing attacks, and code exploitation.
- Achieving blockchain compliance with KYC/AML, SEC, PCI DSS, HIPAA, and more.