



Alfa Algorithms technical capabilities



Who we are

Alfa Algorithms is an advanced **algorithmic software development house** that offers new and progressive technologies.

The main specialization for Alfa Algorithms:

- Solutions for Fintech institutions
- IT for Finance
- Custom software development
- Machine learning and Data analysis
- Complex mobile applications development



Our technologies and tools

Common:

- Docker
- PostgreSQL
- MariaDb
- Cassandra
- Mongo
- Rancher
- MySQL.DB
- Redis
- RabittMQ
- OAuth
- NodeJS
- JavaScript 6-7
- C++
- Python

Java:

- Tomcat
- spring; spring boot; netty; jni
- Hibernate; jdbc

Pytnon:

- Flask
- Django
- AsyncIO
- Pandas
- Petl
- TensorFlow
- Keras
- SciPy
- PyTorch
- NumPy
- Rancher

WEB Frontend:

- Vue.js
- React.js
- SPA based on
- Baobab
- Saas
- Webpack

DB:

- MySQL
- Redis
- PostgresSQL

Package managers:

- Npm packages
- Sbx packages

Our technologies and tools

iOS:

- Swift
- RxSwift
- Moya
- SciChart
- Pushwoosh/FCM
- Firebase
- Crashlytics
- MVVM

Cloud platforms:

- Amazon Web Services
- Google Cloud
- Microsoft Azure

Android:

- Kotlin
- Java
- RxJava2
- Coroutines
- MVVM/MVP
- Clean Architecture
- Data Binding
- Dagger2/Koin
- Pushwoosh/FCM
- Firebase
- Crashlytics

Flow:

- Git
- Jenkins
- Jira

Infrastructure:

- Linux
- Kubernetes
- docker
- NginX

Blockchain:

- Blockcypher
- Etherscan
- web3.js
- Bitcoin, Ethereum, et
- Bitcoin.d
- Parity
- Solidity

White label WebTrader Solution

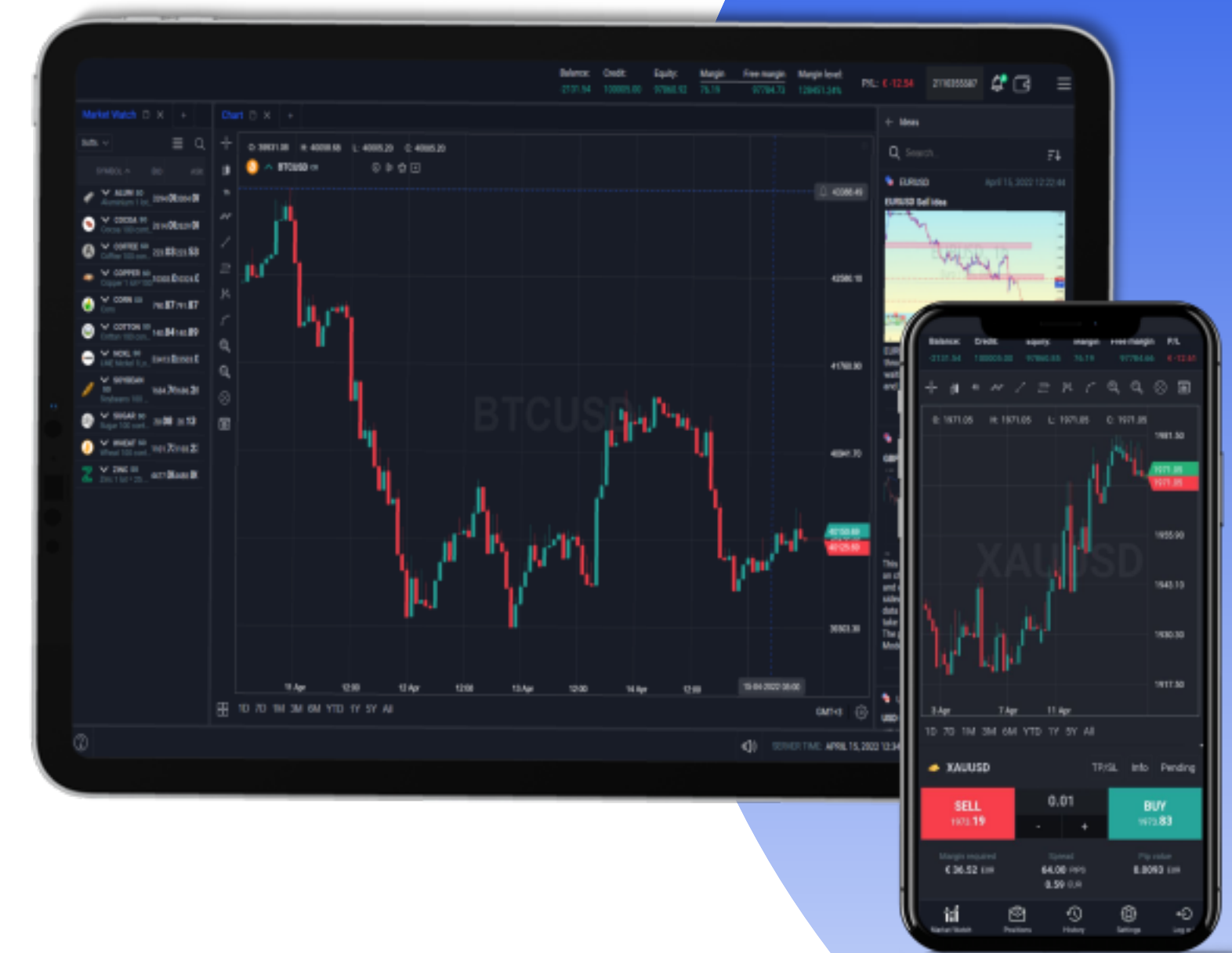
Webtrader and Mobile App

Intuitive trading interfaces for Web and Mobile devices with a variety of trading tools and additional features such as proprietary news channels covering many sources and filtering by various parameters, trading ideas and signals – all combined in one system.

A lot of customer data allows us to upgrade our interface accordingly.

What does the white label version include?

- trading platform
- adaptive mobile version
- trading plugin (can be developed separately, by individual agreement)



Custom software development for **Fintech Institutions**

End-to-end back-end
solutions and web interfaces

Customized mobile solutions

User behaviour analytics

Automated traders conversion
and retention tools integration

Mobile and Web events
analysis

Solutions for banking sector
(data analysis, ML solutions)

IT for **Finance**

Integration with the external
systems

Architecture and system design

Trading applications solutions

Enhanced user experience in
trading

Business analysis and research

Machine Learning and Data analytics

Financial data, market sentiment and news analytics fusion

Knowledge discovery in large data sets

Process optimization and forecasting

Data classification, nonlinear regression and clustering in multi dimensional systems

Real and offline data anomalies detection



Complex Trading **Mobile Applications** Development

Fintech applications for brokers
and affiliates

Integration with CRMs and
other external services

Integration with mobile
events analytic tools

Smart mobile notifications
system



White label Solutions

Crypto Gateway

It is the payment solution that automates processing of cryptocurrency for anyone who wants to expand the payment methods available on their own website. Our company can integrate with the business of our Clients within one day and allow their clients to deposit and pay for the services in cryptocurrency through an API.

Average delivery for the ready fully functional version

within 1 day, after getting all the needed information

Available cryptocurrency for the gateway:

BTC; ETH + BNB

What is necessary from the Customer side:

Public keys for the wallets where all funds will be stored and 3 methods (creating a deposit, confirmations limits and confirmation of the deposit) which will be used in our API

White label Solutions

MOBILE Trading applications

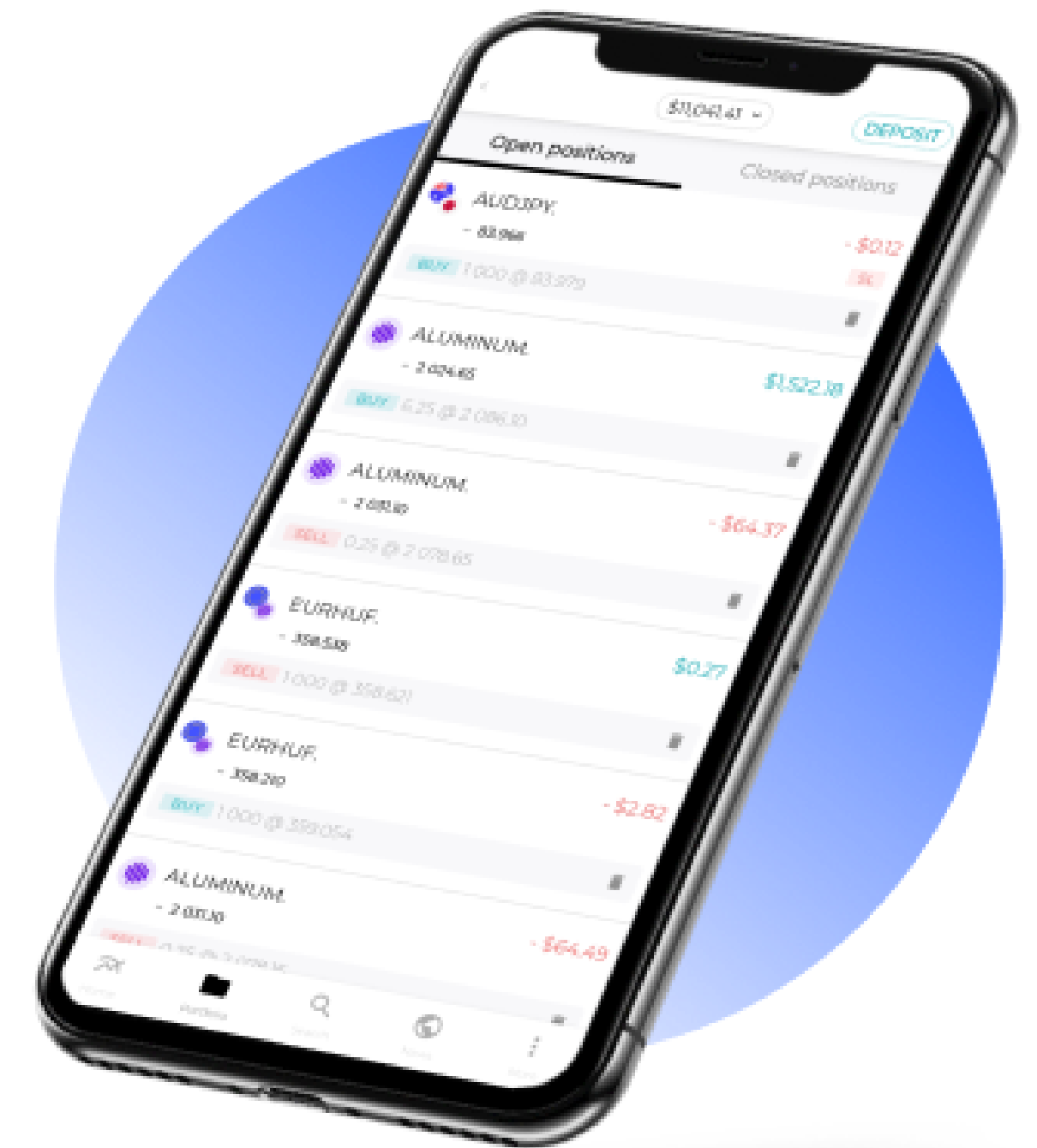
The mobile application can be developed for both platforms – Android and/or IOS. Our company can provide the automated trading via mobile apps that is clean and clear for the clients, with a simple and easy-to-use interface.

Average delivery for the ready fully version

up to 2-3 months

What is necessary from the Customer side:

- store accounts (Play and itunes)
- marketing information (text + graphics)
- legal information (legal entity credentials, PP, TC etc)
- 3rd party services accounts (statistics, tools, push services etc)



White label Solutions

Mobile Trading applications

The mobile trading app include the following functionality:

BACKEND:

- Trading backend connector(MT4/MT5)
- Trading connection health monitoring
- Data feed caching (server feed history)
- Authorization using MT4 ID
- Authorization using email
- Support messages
- Pushes on positions closing, pending orders opening
- Push notifications
- Push-to-update feature

FRONTEND:

- Chart with Candle/Bar/Lines mode
- Switching by time intervals / candle size
- Choose volume
- Set SL/TP as a money value
- Switching On/Off the display of open positions
- BUY/SELL positions opening/closing/modifying
- Deposits in a Webview
- Face/Fingerprint ID (for IOS)
- Multi-languages (EN/RU by default)
- Display different balance fields (Balance, Free margin, Margin, Equity, Margin Level)
- Connection indicator
- Markets / Indicators (MA, BB, SAR, Fractals, etc.)
- Apple watch simple app

Contacts

We leverage the edge of the best knowledge and experience across Israel, Europe and CIS countries.

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