

Ag Ibragimov

Experienced Software Developer.

Lisp Hacker.

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Summary

Full-stack generalist; multiple programming languages; Proven track record in building solutions for over 20 years - web, mobile, cloud services; Expertise spans various industries - Cybersecurity, Fintech, Bioinformatics, Video Processing, etc. Skilled at collaborating effectively in diverse teams, remotely and on-site, capable of assuming leadership roles. Passionate about automation and productivity enhancement tooling. Educator - occasionally post explanatory videos.

Skills

- **Languages:** Clojure(script), Javascript/TypeScript, Python, Java, C#/F#, Lua/Fennel, bash/zsh, Common Lisp/Elisp/Janet
- **Front-End:** HTML5; CSS and preprocessors - SASS, LESS, Stylus; Tailwind, MUI, Bootstrap, etc.; master of transitions and animations.
DataViz - D3, C3, VegaLite.
WebAPIs - DOM, Console, Web Animation, Notification, Canvas, Web Storage, WebSockets, Geolocation, WebRTC, History, Clipboard, etc.
Frameworks: React, Angular, Next.
- **Back-End:** Postgres, Elasticsearch, Couchbase, CockroachDB, XTDB, Kafka, RabbitMQ, Redis, min.io.
AWS - S3, SQS, DynamoDB, EC2, ECS, EKS, Lambda, etc.
CircleCI, Jenkins, Concourse, GitHub Actions.
- **Architecture & Design:** Microservices, Polylith, SOA, Serverless, n-tier, MVC, MVVM, DDD, CQRS, Event Sourcing, Rate Limiting, Caching, etc.
- **Testing:** Playwright, Cypress, Jest, Karma, Mocha, Chai, Jasmine, Nightwatch, Puppeteer, Selenium.
clojure/test.check - generative, simulation, concurrent, end-to-end, etc., types of testing.
- **Operating Systems:**
Linux - Arch, Ubuntu, Debian, Fedora; shells, command-line utilities.
QEMU/KVM, VirtualBox, WSL, Docker, Kubernetes.
Windows - PowerShell, .NET, IIS, WPF, AD
macOS - Applescript/JXA, Hammerspoon.
- **AI Tools:** Anthropic, OpenAI, Ollama, Whisper.cpp.

Professional experience

Qlik/Stitchdata

Senior Software Developer

Since Jul 2024

aws, clojure, docker, github actions, javascript, javascript, jvm, k8s, mysql, playwright, postgres, prometheus, python

Automated cloud data ETL pipelines

- Key role in implementing QCDI project - Qlik Cloud Data Integration
- Prometheus/Grafana metrics
- Identified and remedied multiple vulnerabilities, including a critical security flaw in token-based authentication occurring sporadically that remained undetected for months.

Command Zero

Senior Software Developer

Oct 2023-Jan 2024

aws, clojure, cockroachdb, jvm, polylith

Cyber threat intelligence and digital forensics tool.

- CockroachDB-driven backend enhancements.
- Integrated various metrics into Prometheus/Grafana.
- Polylith-based architectural redesign.

Cisco

Senior Software Developer

June 2020-Oct 2023

aws, clojure, clojurescript, cypress.io, docker, elasticsearch, github actions, graphql, jvm, next.js, node.js, re-frame, react

XDR (formerly known as SecureX) - Cisco's famed cybersecurity threat detection and response platform.

- CTIA and CTIM - Cisco Threat Intelligence API and the model; project IROH - Incident Response Orchestration Hub.
- Elasticsearch performance improvements; Third party service integrations, e.g., Palo Alto Cortex and Cybereason.
- Built Cisco TAC portal, dropping number of incident escalations by nearly 50%.
- Designed, prototyped and developed high complexity management tool for the docs team.
- Annual hackathon participation with a unique and unconventional project. Nominated as a finalist among just a few, out of 300+ other submissions.
- SANS SEC504 certification - "Hacker Tools, Techniques, and Incident Handling."

Dividend Finance

Senior Software Developer

Nov 2018-May 2020

Dividend Finance offers residential solar loans, home improvement, and PACE financing products.

circleci, clojure, clojurescript, heroku, jenkins, jvm, postgresql, puppeteer, rabbitmq, re-frame, react, s3, salesforce, selenium, terraform

Developed web portal for homeowners and solar installers with a comprehensive API for partners, financial institutions, and solar equipment firms.

Clojure-driven API, loosely based on Luminus, with SFDC and Postgres as the systems of record.

Clojurescript (Re-frame) frontend with Material-UI React Components. Responsive design aimed for both desktop and mobile.

- Built a refined and revised web-portal.
- Created an audit log system from scratch.
- Key role in launching new partnership program with multiple capital providers like Keybank.
- Implemented internal document warehousing system.
- Vastly improved testing practices and test coverage. Forged E2E testing framework from scratch.

Funding Circle

Senior Software Developer

Feb 2016-Nov 2018

circleci, clojure, clojurescript, docker, honeysql, jvm, kafka, mesos, om.next, re-frame, react, rethinkdb, ruby, ruby on rails

Funding Circle is a peer-to-peer lending platform.

- Built a web portal for FinOps teams for transaction tracking, deposit monitoring, reconciliation management, etc., while safeguarding net capital compliance.

Clojurescript-based portal, initially crafted with Om.next, later refactored for Re-frame. Set of Clojure APIs on the backend. Materialized views in Postgres with data ingested from Kafka clusters.

Introduced innovative ideas on the front end, such as compartmentalization of UI elements into individual blocks: specs, styles, and render functions, essentially transforming them into highly versatile "Lego pieces."

- Organized, hosted and supervised local meetups.
- Several "Employee of the month" nominations, Multiple "Best team" awards.

Mobitor

Lead Frontend Developer

Apr 2015-Feb 2016

angular, babel.js, bower, coffeescript, couchbase, docker, gulp.js, karma, node.js, postcss, protractor, rx.js

Mobitor was a startup specializing in Medical Equipment Logistics.

Implemented a web portal for managing medical devices - orthopedic and spine surgery implants, and supplemental equipment.

Used Angular, paired with a Node backend, which communicated with a .NET API in C# and MS SQL Server.

Invitae

Lead Frontend Developer

May 2014-Apr 2015

Invitae specializes in diagnostic DNA sequencing.

Designed and implemented an asset tracking/dashboard web app with various charts, graphs, and spreadsheets. Angular-based, written in Coffeescript and supported by a Django, Python backend.

angular, browserify, coffeescript,
d3.js, django, elasticsearch, gulp,
karma, node.js, protractor, python,
ramda.js, rxjs, stylus-css

Vevo

Senior Software Developer

Jan 2012-May 2014

Vevo is the World's Leading Music Video Network.

- Designed and implemented a cloud-based, task-driven, concurrent, and scalable video encoding system.

Redesigned the entire system from scratch, making it vastly more efficient. Benchmarks showed a ten-fold increase in efficiency.

- Led a group of developers in re-building Admin Web Site for partners and internal use. ASP.net, Angular.js.
- Implemented Chromecast integration for Google's partner pilot program, placing Vevo among the very first Chromecast-compatible apps in the world.
- Built the very first Apple TV Vevo App.
- Played major part in redesigning vevo.com.

angular, asp.net, c#, coffeescript,
dynamo db, f#, javascript, ms sql
server, node.js, s3, sqs, typescript

To keep it relevant, jobs prior to 2012 not listed; comprehensive list available upon request. Past experiences include projects such as: High-frequency trading app, Air cargo company project in Dubai, TV commercial monitoring suite for a national TV company, Hotel management ERP system, and more.

Personal projects

Spacehammer

Keyboard-oriented productivity tool for macOS. Allows you to quickly navigate between applications, manage volume and music playback; edit any text input in your preferred editor, and many more.

wiktionary-bro.el

A convenient way to look up the etymology of any word.

mw-thesaurus.el

Merriam-Webster Thesaurus in Emacs.

browser-hist.el

Search through the browser history in Emacs. Opens up possibilities for automating tasks such as retrieving all URLs from a page or extracting page

descriptions.

consult-hn

Hackernews search.

mxp - Emacs Piper

Shell script for piping in and out of Emacs buffers

brief selection, not a comprehensive list - rest is on github.com/agzam

Education

Bachelor of Engineering

Tashkent University of Information Technologies.