

# Ag Ibragimov

Senior Software Developer

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## Summary

Full-stack Developer and Generalist, proficient in a wide range of programming languages, with a proven track record in building solutions - web and mobile apps, cloud services for various industries ranging from Cybersecurity and Fintech to Bioinformatics and Entertainment. Adept at working in diverse teams both on-site and remotely, with a history of taking on leadership roles. Passionate about productivity enhancement and automation.

## Skills

- **Languages:** Clojure/Clojurescript, JavaScript/Typescript, Python, Java, C#/F#, Lua/Fennel, SQL/Datalog, Common Lisp/Elisp, Golang, and Ruby.
- **Front-End:** HTML5; CSS, including preprocessors such as SASS, LESS, and Stylus; frameworks like Tailwind, MUI, and Bootstrap; transitions and animations.  
  
DataViz - D3, C3, VegaLite.  
  
WebAPIs - DOM, Console, Fetch, Canvas, Web Storage, WebSockets, Geolocation, WebRTC, History, Clipboard, etc.  
  
Frameworks: React, Angular, Next.
- **Back-End:** Postgres, Elasticsearch, Couchbase, CockroachDB, XTDB, Kafka, RabbitMQ, Redis, Docker, K8s, Nix, AWS - S3, SQS, DynamoDB, etc.  
  
CircleCI, Jenkins, Concourse, GitHub Actions.
- **Architecture & Design:** Microservices, Polyolith, SOA, Serverless, n-tier, MVC, MVVM,DDD, CQRS, Event Sourcing, Rate Limiting, Caching, etc.
- **Testing:** Cypress, Jest, Karma, Mocha, Chai, Jasmine, Nightwatch, Puppeteer, Selenium,  
  
clojure/test.check - generative, simulation and concurrent testing, etc.
- **Operating Systems:** Linux - Ubuntu, Debian, Alpine, Fedora, CentOS, Arch; shells and command-line utilities.  
  
Windows - PowerShell, .NET, IIS, WPF, AD, WSL;  
  
OSX - Applescript/JXA, Automator;
- **AI Tools:** OpenAI API, Whisper.cpp, Ollama.

## Professional experience

### Command Zero

Senior Software Developer  
Oct 2023-Jan 2024

aws, clojure, cockroachdb, jvm, polyolith

- Cyber threat intelligence and digital forensics tool.
- Enhanced performance of CockroachDB-driven backend.
- Integrated various metrics into Prometheus/Grafana.
- Explored architectural redesign ideas using Polyolith.

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

- Worked on various parts of the system, including the CTIA and CTIM - Cisco Threat Intelligence API and the model; and project IROH (Incident Response Orchestration Hub)
- Improved Elasticsearch stores; created different types of integrations with third party services such as Palo Alto Cortex and Cybereason.
- Built a portal for Cisco TAC (Technical Assistance Center), reducing the number of incident escalations by nearly 50%.
- Designed and developed a management tool for the documentation team.
- Participated in an annual hackathon with a unique and unconventional project that stood out among over 300 other submissions and made it all the way to the finals.
- Enrolled in SANS SEC504 training course - "Hacker Tools, Techniques, and Incident Handling."

## Dividend Finance

Senior Software Developer

Nov 2018-May 2020

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

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

The stack consisted of web portals for homeowners and solar installers, including a comprehensive API for partners, financial institutions, and solar equipment installation companies.

Worked on the Clojure-driven API, loosely based on Luminus, with Salesforce and PostgreSQL as the systems of record.

The frontend apps were built in ClojureScript (Re-frame), utilizing Material-UI React components, and designed to be responsive and usable on desktop and mobile.

- Built an improved and revised web-portal.
- Created an audit log system from scratch.
- Helped to launch a partnership program with multiple capital providers such as Keybank.
- Implemented internal document warehousing system.
- Vastly improved testing practices and test coverage.

## 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 to allow them to track transactions, monitor deposits, manage reconciliations, etc., while maintaining net capital compliance.

Portal made in ClojureScript, initially using Om.next, and later we switched to Re-frame. A set of APIs, made with Clojure, was created for the backend. Materialized views in PostgreSQL were used, where data gets aggregated from Kafka clusters ingested via Kafka Connect.

Introduced unique concepts on the front end, such as using Integrant to compartmentalize UI elements into individual components: specs, styles, and render functions, essentially transforming them into highly versatile "Lego pieces."

- Organized and hosted local meetups.
- Multiple "Best team" awards. Repeatedly nominated and received the "Employee of the month"

## 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

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

Invitae specializes in diagnostic DNA sequencing.

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

## Vevo

Senior Software Developer

Jan 2012-May 2014

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

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 pilot program, demonstrating its compatibility with apps like Vevo.

- Built the first Apple TV Vevo App.

- Played major part in redesigning the main website - vevo.com.

Jobs prior to 2012 are not listed; a comprehensive list can be provided upon request. Professional experience includes projects such as: high-frequency trading app, air cargo company project in Dubai, TV commercial monitoring suite for a state broadcast 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.

`youtube-sub-extractor.el`

Extract subtitles from YouTube videos.

Only brief selection of personal projects, not a comprehensive list

## Education

Bachelor of Engineering

Tashkent University of Information Technologies.