Ag Ibragimov

Experienced Software Developer

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Summary

Full-stack Developer; Generalist; Wide range of programming languages; Proven track record in building solutions - web and mobile apps, cloud services; Expertise spanning various industries - from Cybersecurity and Fintech to Bioinformatics and Video Processing. Adept at working in diverse teams, remotely and on-site, proficient 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, 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:** 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 - Ubuntu, Debian, Alpine, Fedora, CentOS, Arch; shells, command-line utilities.

  QEMU/KVM, VirtualBox, WSL, Docker, Kubernetes.

  Windows - PowerShell, .NET, IIS, WPF, AD

  OSX - Applescript/JXA, Automator;

- **AI Tools:** OpenAI API - GPT4, Anthropic - Claude, Alpha Cephei - Vosk, Whisper.cpp, Ollama.

Professional experience

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 (previously 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

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

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

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

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 an improved 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.

terraform

- Vastly improved testing practices and test coverage. Forged E2E testing framework from scratch.

Funding Circle
Senior Software Developer
Feb 2016-Nov 2018

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.

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

Mobitor
Lead Frontend Developer
Apr 2015-Feb 2016

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.

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

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 the main website - vevo.com.

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

To keep it short and 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.

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.