

# DMITRIY KOVALENKO

## MEMBER OF TECHNICAL STAFF

### CONTACT

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### SKILLS

#### LANGUAGES

Rust, C, Java/Scala, TypeScript/  
JavaScript

#### FRONT-END

React, JavaScript, TypeScript, Vite, CSS,  
tailwindcss

#### BACK-END

Rust (actix-web, warp), C (fastcgi, cgi),  
NodeJS (nestjs, fastify, express), OCaml  
(Dream), Rust (warp, juniper), GraphQL,  
PostgreSQL, Redis, Nginx

#### DATA

Apache Spark, Kafka, Flink, Hadoop,  
Airflow

#### ML OPS

MLflow, Kubeflow, Feature stores, Model  
serving (Triton, TorchServe), Ray, Vector  
DBs (pgvector, turbopuffer),  
Observability (Prometheus, Grafana), CI/  
CD for models

#### TOOLS

Claude Code, OpenCode, Conductor,  
Docker, GitHub, Neovim, ...and many  
more

### LANGUAGES

English Advanced · C1  
German Intermediate · B1  
Ukrainian Native · C2  
Russian Native · C2

### PROFILE

Performance engineer with over a decade of experience optimizing software and building systems. Now working on Codex at OpenAI. Author of popular open-source tools (fff, odiff) and core collaborator on industry-leading projects including Material-UI, Cypress.io, React Native, and Ffmpeg.

Leading expert in performance optimization for any kind of system: SIMD, GPU acceleration, native real-time processing pipelines, and distributed systems performance tuning. Applying AI tools at scale and implementing top-performing AI-native products. Passionate about shaping my own agentic AI toolset to produce the most qualified software solutions and amazing products for users.

### WORK EXPERIENCE

#### MEMBER OF TECHNICAL STAFF

August 2026 – Present

##### OpenAI

Codex harness engineer. Making codex fast and efficient!

#### FOUNDING SOFTWARE ENGINEER

May 2021 – August 2026

##### LightSource.ai

Founding engineer at a procurement-automation startup. Designed and built the core platform end-to-end: web app, backend, data pipelines, and infrastructure. Drove technical direction and deep product involvement.

#### SENIOR SOFTWARE ENGINEER

September 2020 – May 2021

##### Cypress.io

Returned to Cypress to lead the launch of Component Testing.

Cypress Component Testing. Author and lead architect of Cypress Component Test Runner (<https://www.cypress.io/blog/2021/04/06/introducing-the-cypress-component-test-runner/>). Designed the runtime, dev-server integration, and public API adopted by thousands of teams.

TypeScript · React · MobX · Node.js

#### SENIOR SOFTWARE ENGINEER

January 2020 – September 2020

##### Material-UI

Core collaborator & owner of date/time picker components with millions of weekly downloads. Drove accessibility, localization, and API design.

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### EDUCATION

#### COMPUTER SCIENCE

Kharkiv Computer and Technology  
College — Ukraine

2013 – 2017

### WORK EXPERIENCE (CONTINUED)

#### SENIOR SOFTWARE ENGINEER

May 2019 – January 2020

##### Cypress.io

Shipped features across the Cypress test runner and dashboard: authoring, designing, and testing end-to-end product workflows used by millions of developers.

#### SOFTWARE ENGINEER

April 2016 – May 2019

##### Nix Solutions

Full-stack JavaScript engineer and team lead. Owned architecture, delivery, and code quality across multiple client projects.

Credit-union / customer matching platform. Built front-end and back-end modules; designed matching and reporting subsystems.

.NET · ASP.NET MVC · React · jQuery · D3 · Bootstrap

Bus and train ticketing platform. Led front-end feature delivery and code review.

Angular · TypeScript · Karma · Jasmine · Bootstrap

Slide-synced video playback for a video-hosting platform. Designed and implemented the full application architecture.

React · Redux · SCSS · Redux-Thunk · S3 · Mocha · Karma

Multi-platform chat-bot for workflow automation and reporting. Designed and built the full system end-to-end.

Node.js · TypeScript · Jest · Now · Docker

Systems health monitoring and analytics platform. Led the front-end sub-team; owned front-end architecture and contributed to back-end services.

React · Flow · Redux · Redux-Thunk · SCSS · Node.js · Express · Sequelize · Socket.IO · PostgreSQL · Redis · Nginx · Jest · Mocha

B2B integrations and advertising platform. Technical lead. Drove product architecture and delivery.

React · MobX · TypeScript · CSS-in-JS (JSS) · Formik · Node.js · Koa · TypeORM · Inversify · Jest · Cypress · Docker

#### SOFTWARE ENGINEERING INTERN

June 2015 – December 2015

##### Syject

Individual contributor to the large-scale, high-traffic web application for courier delivery.

Customer-to-customer delivery service. Back-end and front-end development.

.NET · ASP.NET MVC · MySQL · Bootstrap · D3

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## NOTABLE OPEN SOURCE WORK

### FFF

Author

★ 6k

High-performance file search toolkit. Frequency-ranked results, sub-millisecond search across massive codebases. Used by millions people every day.

**Rust · Assembly**

[github.com/dmtrKovalenko/fff](https://github.com/dmtrKovalenko/fff)

### ODIFF

Author

★ 3k

Fastest pixel-by-pixel image diffing tool. Powers millions of screenshot comparisons under the hood of every major visual regression testing pipeline.

**Zig · C**

[github.com/dmtrKovalenko/odiff](https://github.com/dmtrKovalenko/odiff)

### MATERIAL-UI

Core Contributor

★ 100k

Core contributor to Material-UI up to v5. Created and maintained date/time pickers. 80% react websites used by date picker at some point.

**React · TypeScript · CSS**

[github.com/mui/material-ui](https://github.com/mui/material-ui)

### CYPRESS

Core Contributor

★ 47k+

Author and lead architect of Cypress Component Testing. Core contributor to Cypress and a former employee of the company.

**TypeScript · C++**

[github.com/cypress-io/cypress](https://github.com/cypress-io/cypress)

### REACT NATIVE

Maintainer

★ 120k

Maintained the status bar module for Android & iOS.

**JavaScript · Java · Objective-C**

[github.com/facebook/react-native](https://github.com/facebook/react-native)

### FFMPEG

Maintainer

★ 50k

Maintained the UDP streaming protocol: audio, video, and subtitles.

**C · Video**

[code.ffmpeg.org/](https://code.ffmpeg.org/)