Dmitry Ivanov, Software Engineer

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Saint-Petersburg ➜ Master's in Computer Graphics ➜ UI/Web designer at kudago.com ➜ Montreal ➜ Frontend/Web engineer for TTBA and Amaze ➜ WebGL specialist at Plotly Inc ➜ Frontend at Mobeewave/Apple ➜ Senior Frontend Engineer at Elevenlabs. Versatile professional in computer graphics, UI/Web design, audio/DSP, frontend engineering, with expertise in fintech and mobile payments. Committed to innovation and seeking opportunities in relevant fields.

Senior Frontend Engineer @   2022-10-01 — Present

- Elevenlabs - Text to Speech and Voice Cloning AI.
- Designing & developing web front, conveying spirit of audio / speech tech.
- Firebase integration: auth, payments, user management.
- Audio streaming technology, connecting to backend API

Software Engineer @   2019-01-15 — 2022-10-01

- Fintech startup Mobeewave that merged into Apple Wallet / Apple Pay.
- Developed Samsung Point of Sale web app
- Created React/redux-based acquirer portal app
- Implemented Spect - frontend AOP framerowk
- Built an admin portal app - based on Spect
- Developed a provisioning portal using AngularJS
- Implemented the web push provisioning UI flow
- Developed the frontend for Apple Business Registry portal
- Designed and developed payments portal
- Created internal admin dashboard
- Designed and developed an Apple Pay Later widget
- Developed a polyfill for the template instantiation web-standard proposal.

WebGL engineer @   2016-09-01 — 2018-09-01

- Plotly.js scientific graphing library.
- Performant webgl waveform renderer
- Testing tools for image comparisons
- Regl-based WebGL core components - scatter, line, splom
- Mobile version of plotly.js
- Scatterplot point clustering algorithm enabling 1B data points
- Lasso selection tool
- Stack-gl and regl contributions

Web-developer @   2015-01-01 — 2016-08-13

- Web agency specializing in web-design, promotion and SMM.
- Design & frontend of shopsvelte.com, pegasie.com, coutureonly.com, socialboomwifi.com, citenova.com, wishbox.gift, ecobrandshow.ca
- Wishbox.gift website, design, preact-based core, integration with API
- Optimization amazemontreal.com for google page insights
- Redesign and optimization of ragemontreal.com
- Rage Academy - game score tracking app

Frontend developer @   2012-03-01 — 2015-01-12

- Kudago is an agency and media covering cultural events in European countries.
- Design, UX, UI and IA of kudago.com
- Desktop and mobile kudago.com website
- <20kb of javascript in mobile website
- 100/100 in google page insights

Web-developer @   2012-03-01 — 2014-03-01

- Webdev freelance jobs - design mockups, UI prototyping, HTML, CSS, JS, wordpress.
- Design/markup for ipoteka-vam.ru, to-travel.ru, to-create.ru, tm-print.ru.
- Statistical dashboard for likemeter application
- boutiqueland.ru: mobile & desktop designs
- seemedia.ru: UI components kit
- Design / markup for rsua.ru, gildiya-masterov.ru, arkon-okna.ru, postavokna.ru, okonka.ru, jumpingclay.ru, aurama.ru, podsoblyaev.ru, biletron.ru, concertinfo.ru, ditspb.ru, rukasil.ru, voenmeh.ru, dverka.ru, sayhello.ru, zpapa.ru, productinsignt.ru, smartmedia, legran doors
- GUI elements for application package "Pure Office"
- UI icons for mobile portal kilowap.ru
- UI icons for project gloricism.com
- Design / markup of book "Childhood", author Andreeva L.
- Design / markup of www.le-gran.spb.ru, JSC Masterskaya
- Creating radar 3d model for navy simulator, JSC Sistema
- Illustrating textbook of methods of hydrodynamics, BSTU Voenmeh

Intern @   2012-02-01 — 2012-03-01

- Speech Technology Center is an enterprise specialising in speech recognition technologies. The position was held in marketing department, related to web-sites and promotion pages design.
- Creation of interactive guide for SpeechPro VoiceKey, using Adobe® Flash®
- Developing batch scripts in Visual Basic to handle massive Microsoft Office Excel data.
- Maintenance of speechpro.com.

Copywriter @   2007-09-01 — 2008-04-01

- Writing articles on predefined topics, defining keywords, SEO-optimization.
- Thousands of SEO-optimized texts

Frontend *(Senior)*:
react, preact, vue, alpine, web-components, signals, observable, rxjs, graph-ql, esbuild, webpack, rollup, browserify, tailwind, material-ui, evergreen, semantic-ui, typescript, webgl, three-js, web-audio-api, howler, tuna, jquery, liquid, cypress, playwright, tape

Design *(middle)*:   UX, UI, IA, figma, sketch

Backend *(middle)*:   nodejs, Python, Django, Mongo, Redis, SQL, nginx, apache

CMS *(middle)*:   jekyll, liquid, github-pages, shopify, wordpress, drupal

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| VOLUNTEERING**Open-Source (Github), Contributor** | 2016-08-01 — 2015-12-01 | • Webgl-related components.
• AudioJS: Stream-based audio processing components
• Stackgl: GLSL to JS compiler glsl-transpiler |

- ColorJS: Color spaces conversions color-space.js
- SciJS: Performant FFT implementation
- Audio-Vis: WebGL-based audio visualizers: spectrum, spectrogram, waveform

Web Being, Web-developer	2016-08-01 — Present	- Websites for friends & good people - Design & frontend of Lidia Varbanova's personal website lidiavarbanova.com - Concept, design and website for MIRCA - Russian speaking / culture club - Website design / development for transmission repair service - proakpp.ru
Baltic State Technical University, Scientific research intern	2010-07-01 — 2011-01-01	- Supporting local CRM. - Pedagogical internship: technical drawing course. - IT department website design & implementation - Fixing natural language processing algorithm. - Designing database reports. - Creating illustrations for methodical books. - A method of creating wall background in Adobe® Photoshop® - An article: UX approach in product design - An article: Drag-n-drop in web-applications - Saint-Petersburg College of Naval Instrument-making: office tasks.

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EDUCATION**Baltic State Technical University "Voenmeh"**   2010-09-01 — 2012-06-14
Master - Information science and computers, intellectual systems

Baltic State Technical University "Voenmeh"   2006-09-01 — 2010-06-14
Bachelor - Information and computer science

Saint-Petersburg College of Marine Instrumentation
Secondary professional education, technician - Automatic control systems   2002-09-01 — 2006-06-01

Baltic State Technical University "Voenmeh"   2010-09-01 — 2012-02-15
Specialist - Economics and Management

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LANGUAGESEnglish *(fluent)* , Russian *(native)* , French *(basic)*

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INTERESTSComputer Science   *Compilers, DSP, AI, NN*

Music Technologies *synthesis, harmonic analysis, spectrograms, audio-vis, wavelets*
Bhakti Yoga *Prasadam, Kirtan, Mridanga, Arati*