

Kseniya Parkhamchuk

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Senior Frontend Engineer with over 5 years of experience, actively transitioning into AI Engineering, focusing on LLMs. Leverages a strong software engineering foundation (best practices, system design) to develop AI-focused solutions. Valuing first-principle thinking and an integrated approach.

Skills

LLM: Python, PyTorch, Transformers, LoRA, QLoRA, Flash Attention, KV Cache, Paged Attention, RoPE, vLLM, NCCL, FSDP, custom datasets, prompt engineering, W&B

Web Development: TypeScript / JavaScript, NextJS, React, NodeJS, MongoDB, AWS, Tailwind, SCSS, CSS Modules, REST API / GraphQL, Jest, React testing library, OAuth2, Custom Components Libraries, Redux Toolkit / TanStack Query, Storybook, pnpm, Vercel, Snyk, micro-frontends, Git

Experience

Senior Software Engineer, Kaseya – Krakow, Poland Jan 2024 – Dec 2024

- Led system design and initial implementation of monolith-to-microfrontends migration, enabling independent deployments and reducing cross-team dependencies while improving fault tolerance through granular release cycles
- Delivered critical navigation system redesign in 48-hour sprint, resulting in successful product demo that drove increased conversion rates and sales engagement with high-profile stakeholders
- Spearheaded unification strategy for two distinct frontend portals, designing and implementing a shared component library that streamlined development across both platforms
- Optimized file system UI performance to near-instant response time through custom state management and intelligent tree preloading, handling partial selection states across dynamically loaded nodes

Software Engineer, EPAM – Krakow, Poland Nov 2021 – Dec 2023

- Designed and delivered a comprehensive image processing solution, including tech stack selection and feature optimization for cropping, uploading, and resizing functionality
- Mentored team members through targeted code reviews and technical knowledge transfers, strengthening frontend expertise across the team
- Influenced UX decisions in design collaboration meetings by identifying responsive design constraints and proposing MVP-focused solutions, balancing technical feasibility with user experience

Software Engineer, Itransition – Minsk, Belarus Oct 2020 – Oct 2021

- Developed diverse contract template system with multiple viewing modes (edit/preview), implementing custom HTML/CSS solutions to automate documentation generation across various business scenarios

Software Engineer, Softacom – Minsk, Belarus Sep 2019 – Oct 2020

- Developed landing pages and content features while contributing to UX through design prototyping and SEO optimization, collaborating cross-functionally to deliver responsive, conversion-focused web experiences

Projects

GPT-2 (<https://github.com/KsuParkhamchuk/GPT-2>) PyTorch, KV Cache, RoPE, W&B

- Implemented GPT-2 architecture from scratch, including manual layer construction and core algorithms implementation, created Jupyter notebooks detailing architectural insights and mathematical concepts

Gemma3-sft (<https://github.com/KsuParkhamchuk/gemma3-sft>) LoRA, Transformers, custom dataset

- Developed experimental fine-tuning pipeline, including custom data preprocessing for targeted model specialization
- Designed a diverse fine-tuning dataset incorporating multiple task types (zero-shot, reasoning, Q&A, inverse prompting) following academic research, though discovered minimum viable dataset thresholds for effective training

Education

BSUIR – BS in Computer Science

June 2021