Kseniya Parkhamchuk

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Senior Fullstack 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   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   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   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   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 algorithms implementation

vLLM-mm-chat (https://github.com/KsuParkhamchuk/vllm-mm-chat-comparison)   vLLM, FastAPI, WebSockets
- Architecting a chat system with vLLM, implementing parallel inference optimization and conducting comparative analysis against leading frameworks for optimal performance

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

Education

BSUIR – BS in Computer Science   June 2021