Vasily Inkovskiy

vasilyinkovskiy@cmail.carleton.ca
+1-343-297-8733 | Ottawa, ON, Canada E
Github | LinkedIn

Work Experience

Kinaxis Ottawa, ON

Co-op Backend Developer (C++, C#/.NET, NUnit, Jenkins, SonarQube, Git, Bitbucket, SourceTree, Visual Studio) Sep 2022 - Current

- Debugged and modified multi-threaded **C++** code, extensively utilizing **Visual Studio** debugger, to eliminate deadlocks and race conditions revealed in customer escalations and internal testing to ensure code robustness and optimal performance
- Revamped and optimized core components of the **C++** server code, leveraging modern **C++17** features, to enhance the query engine capabilities, resulting in a direct impact on the product documentation and widespread improvements across the entire codebase
- Enhanced **C# NUnit** test suite by developing utility classes and refactoring existing tests for improved modularity, resulting in a 60% increase in code coverage, as determined by **SonarQube**, through code reuse and comprehensive evaluation of the function logic
- Developed query randomizer in **C#** using **ANTLR** to parse queries in a custom **SQL**-like language and generate random queries that effectively stress-tested the server's performance and ensured robustness

Personal Projects

BrainBot: Personalized AI-chatbot that enables users to intuitively query their knowledge base

Next.js, React.js, Redux, Tailwind CSS, Framer, Supabase, Django, TypeScript, Python, PostgreSQL, Stripe

- Architected and implemented a comprehensive **microservices** ecosystem, integrating **Next.js** for front-end components and certain backend functionalities, **Django** for document processing services, and **Supabase (PostgreSQL)** for seamless authentication and document storage management
- Developed a **Django** server that leveraged **Python OCR** packages and OpenAI API to generate vector embeddings of the document content, while employing webhooks for communication with a **PostgreSQL** database, ensuring fast data storage and retrieval

GPTNinja: AI-powered text paraphrasing tool

Next.js, React.js, Tailwind CSS, Framer, FastAPI, Cypress, Docker, Supabase, TypeScript, Python, PostgreSQL

- Developed a performant **Next.js** application, leveraging server-side rendering (SSR) to optimize loading times and enhance SEO, while effectively integrating with the OpenAI API for dynamic content generation
- Designed and implemented a complete end-to-end testing strategy utilizing **Cypress**, providing comprehensive coverage of the application's functionality

AvatarAI: Web application for creating AI-generated avatars

TypeScript, HTML5, CSS3, Next.js, React.js, MongoDB, Amazon S3, GCP, Docker, Figma

- Leveraged the **Amazon S3 SDK** and **Multer** to develop **REST API** endpoints facilitating seamless upload of user photos directly to **Amazon S3**, bypassing the necessity to save them on the server
- Engineered a streamlined **CI/CD** pipeline on **Google Cloud Platform** for a custom **Next.js** application, leveraging **Docker** multi-stage builds to optimize development workflows and deployment efficiency.

Technical Skills

- **Programming Languages**: JavaScript (ES5/ES6), TypeScript, HTML5, CSS3, C, C++, C#, Python
- **Web Frameworks/Libraries**: React.js, Next.js, Node.js, Express.js, FastAPI, Django, .NET, Redux, Tailwind CSS, Framer, CSS-in-JS
- **Database**: MongoDB, PostgreSQL, SQLite
- **Tools/Environment**: SonarQube, Jenkins, Git, Jira, SourceTree, NPM, Visual Studio, Webstorm, Windows, Linux, Figma

Education

Carleton University Ottawa, ON

Honours Bachelor of Computer Science, Co-Op Option *May 2021 - Dec 2024*

GPA: 3.96/4.00 | **Scholarships/Awards**: Dean's List

Carleton University Ottawa, ON

Honours Bachelor of Health Science, Concentration in Biomedical Sciences *Sep 2017 - June 2021*

GPA: 3.97/4.00 | **Scholarships/Awards**: University Medal in Health Sciences, Dean's List