EXPERIENCE

chrd.io: a music generation app.

GitHub

- Developed proprietary libraries that generate trillions (10^{12}) of good musical examples by linking music theory and code.

- Secured the product's growth, making it 5 times more scalable by refactoring the codebase to the microservice architecture.

- Optimized performance, reducing the memory allocation to 2% of the original for specific tasks by lazy evaluation.

- Automated the networking setup for each microservice by standardizing configuration.

- Sped up core functionality development by 400% building intuitive tools for internal use.

- Strengthened the codebase maintainability, making 11 repositories more coherent by packaging a shared type definitions library.

- Delivered high-quality code with 100% test coverage by embracing type annotations and property-based testing.

- Upgraded data collection, making it 3 times faster by fine-tuning concurrent execution.

- Safeguarded CRUD interoperability with the 6 most used SQL dialects using a modern ORM toolkit.

- Followed the best practices of web development, splitting the number of API calls in half by sending files as hex-encoded strings.

- Organized the activity of 4 microservices by implementing a feature-rich gateway API.

- Stabilized code quality in 8 core repositories by deploying CI tests with GitHub Actions.

minimono: a banking API library.

GitHub

- Reinforced security, protecting the user against access denial by handling common misuse cases and implementing a rate-limiter.

- Enabled a seamless user experience, presenting data in native types by performing response deserialization and type coercion.

- Enhanced the library's customization, giving the user an option to use any compatible backend for API calls by providing the relevant building blocks.

- Reduced the API-related time waste, reducing the number of API calls to exactly 1 per time range by developing the «eager caching» feature.

- Provided access to the library the way the user expected by packaging and publishing it on the Python Package Index.

ARTHUR RYZHAK

I'm a python developer with experience in API building and technical writing. I prefer to start tasks headfirst and learn on the fly. I prioritize effective communication and clearly defined expectations.

CONTACTS

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EDUCATION

Master's Degree in Music Performance
Ukrainian National Tchaikovsky Academy of Music (UNTAM)
2020-2022

SKILLS

python: I regularly use json, itertools, abc, dataclasses, random, typing, datetime, poetry, fastapi, typer, uvicorn, aiohttp, requests, SQLAlchemy, pydantic, pytest, hypothesis libraries.

git: I perform most version-control operations from the terminal.

bash: I feel comfortable configuring a server over SSH.

docker: I can build and run essential containers.

SQL: I can model a database structure and perform CRUD operations and joins.

typescript: I can write a client with a React.js template.

INTERESTS

Recently I fell in love with the «Lost Terminal» narrative podcast.

I'm a devoted fan of the «Adventure Time» cartoon series.

I consistently find myself re-reading **Hemingways** novels every summer.