Mikalai Kavalenka
Full stack developer

I'm a full stack developer with 9+ years of experience. In my skills I try to keep two backend stacks - NodeJS, Java, and frontend - React. In my work I try to take care about good atmosphere in team, have leading team and teaching experience.
I'm a big fun of problem solving, processes optimization and docker containers. In free time support my pet project node-sequelize-stream.

Contact

Phone
+48 576 973 666

Email
nkovalenko93@gmail.com

LinkedIn
nikolai-kovalenko-864b7b113

GitHub
nkovalenko93

Languages

- Belarussian (native)
- Russian (native)
- English (Upper-Intermediate)
- Polish (beginner)

Education

2011 - 2016
Specialist's degree (IT engineer)
Gomel State University

Expertise

- JavaScript, TypeScript
- NodeJS, Express, NestJS, Passport
- React, Webpack, NextJS, JQuery, D3
- Web3.js
- Groovy, Grails, GORM
- Java, Spring, Hibernate
- Postgres, MySQL
- Jenkins, CircleCI
- Git, Mercurial
- Docker, Microservices, RabbitMQ
- Josso, Passport-saml
- Jira, SCRUM

Experience

2023
SCAND | Cryptocurrency trading bot

NodeJS developer

Stack: NodeJS/Web3/Redis/Telegram

Project desctiption: Telegram bot for searching rates on different cryptocurrency exchange platforms and trying to get profit from exchanging pairs or chains of different cryptocurrencies on different platforms.

Activities:
- Setting up an environment
- Setting up a deploy process in Jenkins
- Communication with PO regarding feature use cases
- Feature design and implementation
- Test coverage

Achievements:
- Managed to make a profit 1-3% (especially at night).

2023
SCAND | File sharing platform

Full stack Javascript developer

Stack: NodeJS/React/Web3/IPFS/Postgres/WalletConnect

Project desctiption: System for uploading, storing and sharing files using IPFS.
Files can be switched to private mode for own coin based on Ethereum.

Activities:
- Setting up an environment
- Communication with PO regarding feature use cases
- Feature design and implementation

Achievements:
- Installed an own IPFS node for company which now is used for other purposes too.

2022 - 2023
SCAND | Bio energy trading auction platform

Full stack Java/React developer

Stack: Java/Spring/React/Lucene/Postgres/GLPK/AWS

Project desctiption: Platform for trading bio energy resources on auction, selecting cheapest offer (or mixed set of offers) and making a contract between seller and buyer.

Activities:
- Setting up a react projects
- Setting up a deploy process in Jenkins
- Communication with PO regarding feature use cases
- Feature design and implementation
- Test coverage

Achievements:
- Implemented Java-GLPK integration that allows to pick set of offers to get minimal price for buyer.

2022
SCAND | Strategy card game marketplace

Full stack Javascript developer

Stack: NodeJS/NestJS/React/NextJS/Web3/RabbitMQ/Docker/Postgres/WalletConnect

Project desctiption: System for trading cards for the strategy card game. Cards can be bought/sold/exchanged for own coin based on Ethereum.

Activities:
- Setting up a javascript projects (backend and frontend)
- Communication with PO regarding feature use cases
- Architecture design, feature design and implementation

2019 - 2021
SCAND | Gas optimization platform

Tech lead

Stack: NodeJS/React/Python/Flask/Java/JavaFX/Postgres/GLPK/Jenkins

Project desctiption: System for optimizing gas trades in europe to reduce the common total costs for all participants of gas trading and anonymous participating in a trading auctions.

Activities:
- Team leading (8 developers)
- Setting up a javascript projects (backend and frontend)
- Setting up a Jenkins jobs, configuring servers
- Communication with PO regarding feature use cases and the work that has been done
- Communication with stakeholders regarding project perspectives
- Leading of daily meetings and sprint retrospectives
- Architecture design, feature design and implementation
- Test coverage

Achievements:
- Implemented linear programming solver service using python PuLP library and GLPK core for solving LP equations and finding minimum of the equation function.
- Offered and implemented "missing link" functionality which offers to traders to buy some extra gas flows that allows us to optimize much more costs.
- Managed to reduce total costs 1.5 times by optimizing gas flows and allow owner to get 20% of the reduced costs.
- Implemented anonymous authorization and trading auction participating systems using set of RSA and AES keys.
- Fully automatized release process of all applications in the system in Jenkins.

2018
SCAND | e-invoicing

Full stack Javascript developer

Stack: NodeJS/React/RabbitMQ/Docker/MySQL/Microservices

Project desctiption: System for invoicing of the procurement users.

Activities:
- Team leading (3 developers)
- Configuring a webpack for frontend
- Setting up a CircleCI jobs
- Communication with PO regarding feature use cases
- Feature design and implementation
- Test coverage
- Releasing of the full set of microservices

Achievements:
- Dockerized all the services in application to have possibility to run a separate service locally without running others

2015 - 2018
SCAND | e-procurement

Full stack Groovy/Java/Javascript developer

Stack: Groovy/Grails/React/Java/Spring/NodeJS/Josso/Docker/MySQL

Project desctiption: Set of applications that provide a full cycle of business like online catalog, advertising, auto-buying things and delivering it to warehouses, order processing, etc.

Activities:
- Feature design and implementation
- Test coverage

Achievements:
- Implemented React library that allows users to customize elements on UI (change position or hide) and save the schema. This library helped to reduce 15% of customizations of UI for different clients.
- Integrated NodeJS applications to SSO system (based on Josso) with passport-saml.

2014 - 2015
IBA Gomel

Java developer

Stack: Java/JUnit/Mockito/PowerMock/JBoss Application Server

Project desctiption: Working on company process project based on jBPM.

2014
X-Pride

Android developer

Stack: Java/Android SDK

Project desctiption: Development of sites statistics analyzer.

Additional activities

- node-sequelize-stream (npm) - pet project to allow to stream data from db using Sequelize ORM.
- GrailsCodeNarcPlugin - merge request to grails code analyzer plugin.