ANDREY ANDRUSENKO

Full Stack Developer | Angular | Node JS | Postgres | Finance Expertise

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SUMMARY

With years of experience as a shadow developer and my strong passion for creating useful applications. By presenting my project (SPA Asset Management Platform) I intend to demonstrate an ability to be efficient part of any team and be ready take any challenge. My career is mostly devoted to the financial sector and closely related to implementing new systems and technologies.

EXPERIENCE

Full Stack Developer

3A Solutions Inc

📅 01/2023 - Present   📍 Moscow, Russia

- Developed a decoupled, scalable, ready-to-go asset management web application platform from scratch.
- Implemented complete asset management model: Model Portfolios, Strategies, Orders, Balance, Trades, Portfolios, Accounts, Investment Restrictions, Performance () and Management Fees (hwm, sliding scales), Portfolio returns analysis (time-weighed rate of return, pl factor analysis).
- Implemented a comprehensive financial accounting system.
- Built RESTful API architecture using Node JS (Express) layer to isolate the database from frontend and simplify further development and maintenance.
- Created frontend using Angular, Material Design and RxJS.
- Built an effectively structured database using PostgreSQL and created functions to perform complex calculations.

Senior Specialist in Capital Markets BackOffice

BNP Paribas

📅 03/2021 - 01/2023   📍 Moscow, Russia

- Created SPA BackOffice Dashboard. Flexible UI to get live customized data regarding trades and payments in order to process them duly and timely (HTML=CSS - JavaScript - Node JS - SQL Server).
- Developed a tax suspension verification service for clients applying for deposits (HTML Scraping - VBA).
- Developed a module to track the document flow for trades' confirmations. User-friendly interface for status management and reconciliation functionality (SQL Server - Access).
- Settled FX/MM/Forwards/IRS/CCS trades. Controlled settlement, verified payments. Maintained and controlled cash positions for front office.

Private Investor

Own Asset Portfolio

📅 08/2016 - 02/2021   📍 Moscow, Russia

- Managed my own investment portfolio using various products through brokerage account and collective investments
- Self-education and development in financial markets.

Head of Operations and Support Department

Renaissance Investment Management

📅 02/2006 - 01/2011   📍 Moscow, Russia

- 2 middle office platforms were launched to ensure consecutive growth of the private client asset management business
- Developed an additional module for the first middle-office platform, which allowed it to be launched on time. The module was a crucial part and was constantly being developed in accordance with business demands

PROJECTS

Asset Management Platform

A full-scale application for financial companies providing investment portfolio management services, including all aspects of investment cycle and accounting

BackOffice Dashboard (BNP)

SPA with flexible UI to get live customized data regarding trades and payments in order to process them duly and timely

ACHIEVEMENTS

Ready-To-Use Full-Scale Asset Management System
Developed a ready for market application covering full business cycle of asset management and accounting

Node JS REST API
- More than 100 endpoints to API
- Isolated access to database
- Access to third party API (market data)
- Session authentication via JS passport
- Applying DB role to each request by switching query pool

PostgreSQL
69 tables, 82 functions, 6 group roles, 100 constraints, 13 triggers, 18 RLS policies.
Functions:
- FIFO calculation
- Balance open, close, projection
- Order calculation based on model portfolio and applying investment restrictions
- Time-weighted rate of return and PL analysis
- Investment portfolio detailed statement
- Fees calculation (high-water mark, sliding scale fees): management/performance

SPA Angular UI
The flexible, fast and easy-to-understand user interface allows you to intuitively use the application as efficiently as possible.

SKILLS

Angular   **PostgreSQL**   **Node JS**   **RxJS**

JavaScript   **TypeScript**   **HTML**   **CCS**

Financial Expertise   **RESTful API**

EDUCATION

Master of Economics graduated with honors
State University of Management

Banking Specialist graduated with honors
Moscow Banking School with Central Bank of Russia