

Danylo H.

Senior Full-Stack Engineer

SUMMARY

- Software Engineer with 5+ years of commercial experience building software from scratch; - Good knowledge of main clean code principles like DRY, SOLID, YAGNI, KISS; - Have experience building software solutions from the ground up: from discussion with clients or businesses to understand the problem, field of study and problem research, to deployment and post production support. - Upper-Intermediate English. - Available ASAP.

TECHNICAL SKILLS

Main Technical Skills	JavaScript, TypeScript
Programming Languages	JavaScript, TypeScript
JavaScript Frameworks	Angular, Express, NestJS, Node.js, Vue.js
JavaScript Libraries and Tools	LoopBack
Databases & Management Systems / ORM	AWS ElasticSearch, MongoDB, PostgreSQL, Redis
UI Frameworks, Libraries, and Browsers	Angular Material UI
Cloud Platforms, Services & Computing	AWS, GCP
Amazon Web Services	AWS ElasticSearch
Third Party Tools / IDEs / SDK / Services	Algolia
Deployment, CI/CD & Administration	CI/CD, Jenkins
Virtualization, Containers and Orchestration	Docker, Kubernetes
Version Control	GitHub, GitLab
SDK / API and Integrations	GraphQL, RESTful API
Mail / Network Protocols / Data transfer	GRPC, WebSockets
Message/Queue/Task Brokers	Kafka, RabbitMQ

EXPERIENCE

Full Stack Developer

March 2021 – Present

Interactive Kiosk for remote printing

2021.

Description: Developed interactive Kiosk (hardware + software) for remote printing. User touchscreen and Telegram bot to upload documents (PDF, DOC etc) they want to print, software calculates print cost, checks network printer availability, accepts payment through connected POS terminal, and queues print task, informing user about which printer their task is assigned to. Hardware is done on Raspberry Pi with touchscreen, Ingenico POS terminal and Ethernet networking. Software is built with TypeScript on NodeJS (backend and queue service), MongoDB as DBMS. Kiosk frontend is done using Vue with custom components, backend interaction is based on Websockets.

A platform for public transport payments

2020.

Description: Developed MVP of a platform allowing public transport passengers in Ukraine to pay fare using only their mobile phone. Platform includes a microservice backend written in TypeScript, using GraphQL combined with REST-like API, PostgreSQL as primary DBMS. Platform has two native apps written with React Native and TypeScript. Dashboard (back-office) is written with Vue and Ant Design of Vue. As a full-stack developer.

A platform for Ukrainian government institution

2020.

Description: Developed solution for Ukrainian government institutions allowing them to monitor bankrupt banks' assets (real estate, ground, transport). Data is fetched from three different registers (official asset registry of Ukraine and two open-data sources) and merged into one dashboard. Dashboard allows to query, filter and modify data in databases and compare data to see differences in data sources. Backend is written using TypeScript and JSON-RPC, PostgreSQL and MongoDB as databases, frontend is written with Vue and Ant Design of Vue. As a full-stack developer, mainly backend.

CRM for marketing agency

2019.

Description: Developed CRM for marketing agency to collect feedback about goods from 100+ Facebook pages in one place and auto-reply to frequently asked questions. CRM allowed managers to create rule sets with predefined answers for the most common user intents, saving human time & money. Main challenge was in high demand – 100+ pages generated a lot of events every second, and we needed to keep up and auto-reply users in less than a minute. CRM has an internal messenger, allowing real-time communication between managers and clients either in Facebook Messenger or in comments. Backend is written in TypeScript and distributed across multiple EC2 instances, inter-service communication is done through



RabbitMQ. Queue management is based on Kafka. Frontend is written using Angular. As a full-stack developer, mainly backend.

Project Under NDA

2019.

Description: Developed indexing solution that crawls a list of pre-defined digital repositories (EPrints 3, DSpace) and extracts info about related publications. Info includes title, abstract, content fragments, authors and tags. Extracted info is stored in MongoDB and linked to other entities (like authors) if possible, i.e. the author already exists in DB. This info is then indexed in

ElasticSearch to allow full-text and fuzzy search. Implemented HTTP search service backed by

ElasticSearch with Algolia-like API. Frontend allows browsing, filtering and searching stored records, users can generate search reports and download original content directly from e-repository. As a full-stack developer, mainly backend.

A system for tracking bank managers' productivity

2019.

Description: Developed solution for tracking bank managers' productivity. Tracking is based on

daily polls at the start and by the end of the day. Poll is designed in a way to determine manager's efficiency. After the second poll, right before the end of the working day, the system

evaluates managers' results and calculates their productivity (KPI). In case of underperforming,

the system helps managers with materials from a knowledge base. As a backend developer.

A search service for a drug store network

2019.

Description: Implemented search service with ElasticSearch for a drug store network with more than 5000 products. Set up indexes on MongoDB to ease data polling, implemented time

and event-based replication from MongoDB to ElasticSearch indexes, keeping indexes in sync

with any changes in origin DB. Created rich, Algolia-like, search API to be used on websites, chatbots and internally. Service supports omnibox-like (single input) search across all products

and their specs. Developed dashboard allows to monitor index and sync health and modify indexed data if needed. As a backend developer.

A framework for chat-bots

2019.

Description: Developed a framework for internal use that allowed us to write a lot of simple and

complex chat-bots for three most popular messengers at a time: Telegram, Viber, Facebook Messenger. Framework is messenger-agnostic, written in TypeScript, utilizes TypeScript best practices – IoC, decorators. Framework supports state management (Redis), multi-context dialogs, messenger-specific functions like Telegram Pay or Facebook Messenger cards. As a lead developer.



EDUCATION

Master's degree in Computer Science.

The Bohdan Khmelnytskyi National University of Cherkasy.

