Yaroslav Davydchuk

Node.js / JavaScript Developer (Backend & Integrations)

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Software Engineer focused on backend systems and integrations. Over the past year I have delivered several JavaScript/Node.js projects—building backend services, integrations and APIs—and implemented solutions based on AI and RAG. I focus on architecture first: design the system, then pick the tools. My engineering approach is reinforced by 15+ years in project management and people development, where I implemented automation, streamlined processes and built data analytics tools. This combination helps me handle the technical detail and work effectively with people.

Technical Skills

Programming/Code: JavaScript, Node.js(ESM)
AI/Chatbots: Botpress Cloud, RAG, grammY (Telegram)
Cloud: Azure Functions, Azure Container Apps/Jobs, AWS/GCP
DevOps: Docker, Terraform, CI/CD (GitHub Actions)
Data: SQL (Postgres, ClickHouse, MySQL), database modelling, normalization, warehouse design, ETL (Node.js/Python)
Data Visualization: Grafana, Tableau, Looker Studio, D3.js, Chart.js

Employment History

Aug 2024 – Present, **Chatbot Developer & Automation Engineer** (Contract via Upwork; official title: "Analyst with experience in Customer Support & Chatbot Implementation"), Alludo (formerly Corel)
Stack: Node.js (ESM), Azure Functions/Container Apps, Docker, ClickHouse, Snowflake, Grafana, Botpress, REST.
- Designed and shipped Botpress customer-support chatbots—combining UI flows with JavaScript logic—and leveraged SQL and AI (incl. RAG) to optimize performance and scalability.
- Developed a Node.js ETL application that collects and parses structured data from external services (e.g. Confluence, SharePoint), transforming it into knowledge base entries for Botpress-powered bots.
- Monitored chatbot usage and effectiveness using Grafana dashboards and ClickHouse queries, identifying low-performing areas and implementing improvements.
- Collaborated with Customer Support and Product teams to continuously update bot logic based on real-world interactions and feedback.

Nov 2023 – Mar 2024, **Trainee Data Engineer**, Northcoders
Stack: JavaScript, Node.js/Express.js, Python/Pandas, AWS, TDD (Jest, Pytest), Postgresql, Terraform, Github Actions,
- ETL with Python/Pandas, SQL modelling (star schema), API integrations, TDD.
- Deployed to cloud (AWS EC2, Lambda), CI/CD with Terraform and GitHub Actions, baseline monitoring.

Nov 2018 – Present, **Independent Contractor/Freelance Developer** (project-based)
- Designed and implemented Lead-gen chatbots for real estate.
- Internal tool for staff evaluation (full-stack)
- Anti-bullying chatbot (Node.js + grammY + Express)
- Created interactive courses template delivered through messaging platforms
- Developed a comprehensive system for collecting and analysing employee KPIs, aiding businesses in performance management and optimization.
- Engineered a series of chatbots for training, onboarding, sales simulations, psychological testing, and entertainment

Nov 2021 – Apr 2023, **Training and Development Specialist,** Epicentr K, Ukraine
- Participation in the Learning Management System implementation project
- Conducted both online and offline training sessions and created video courses
- Developed and managed a charity project using chatbot 'Epicenter-help'

Mar 2021 – Oct 2021, **Project Manager**, Integrator (IT service), Ukraine
- Managed ERP/CRM integration projects for customers
- Coordinated the work of the team of integrators

Oct 2020 – Jan 2021, **Project Manager,** Training & Development Specialist, UnionGroup, Ukraine
- Implemented distance learning projects
- Developed teaching materials and courses

Major Accomplishments:
- Launched a gamification project in LMS
- Developed various chatbots including COVID-19 informer and staff onboarding

Volunteering

2022, Hilfswerk International, Ukrzaliznytsia (Ukrainian Railways), station-based support for displaced families; shifts, tea points, first-need supplies, referrals.
2023 - Present, Humanitarian support and spare-parts distribution.

Highest Education

2004-2005, **Master's degree in Public Service**, The National University of Ostroh Academy, Ukraine
1999-2004, **Master's degree in Finance**, The National University of Ostroh Academy, Ukraine

Professional Qualifications

2023, Google Data Analytics Course
2023, Northcoders Data Engineering bootcamp