

Viktor Urbanas

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Summary

Highly skilled Backend and AI Engineer with extensive experience in developing and optimizing complex systems. Proven ability to design and implement AI-powered solutions, including integrations with Amazon Bedrock, hybrid search, and Text2SQL mechanisms. Expertise in Node.js, Python, FastAPI, and cloud platforms like AWS and GCP. Adept at performance optimization and building scalable backend architectures, driving innovation and delivering robust, efficient applications.

Work Experience

Backend / AI Engineer, AllStarsIT, Remote, Israel

12/2025 – Present

- Augmented the existing AI assistant by developing and integrating new functionalities.
- Diagnosed critical gaps and issues within the current AI assistant architecture to ensure long-term scalability and evolution.
- Engineered a new version of the AI assistant from the ground up, incorporating Amazon Bedrock integration, hybrid search, and smart follow-up capabilities.
- Contributed significantly to the development of a domain-oriented Text2SQL mechanism for enhanced data retrieval.

Backend / AI Engineer (Part-time), Glorium Technologies, Remote, Ukraine

09/2025 – 11/2025

- Quickly prototyped AI-powered proofs of concept from customer concepts, transforming them into demonstrable solutions.
- Assessed technical feasibility and formulated implementation plans for production-ready features.

Senior Backend Engineer, ClickUp, United States , Remote

03/2025 – 10/2025

- Executed high-load performance optimizations for long-running replica queries.
- Resolved critical bugs within core application flows impacting hundreds of thousands of users.

Senior Backend Engineer (AI experience), Qatalog, United Kingdom , Remote

09/2023 – 03/2025

- Integrated external APIs to retrieve relevant data from various services based on natural language queries using OpenAI.
- Formulated intelligent prompts for diverse AI-driven tasks.
- Implemented embedding caching for searched documents to accelerate query resolution.

- Developed AI answer parsing, processing, and streaming functionalities for client-side delivery.

Node.js Teach Lead, Team Lead, AppReal, Israel , Remote

09/2022 – 06/2023

- Architected complex SQL queries for advanced data analysis.
- Developed the backend infrastructure for a new client-facing product.
- Integrated the YouTube API to enhance platform capabilities.
- Established a service for continuous data ingestion from the YouTube API, encompassing both videos and channels.
- Configured cron jobs for the daily recalculation of dashboard metrics.

Backend Lead, Personal project, Ukraine

08/2021 – 05/2023

- Provisioned AWS infrastructure as code for a mood-tracking mobile and Slack application.
- Independently architected a serverless backend solution.
- Established continuous deployment (CD) pipelines for both development and production environments.

Node.js Engineer, Team Lead, Lohika (Capgemini Engineering), Kyiv, Remote

12/2018 – 08/2022

- Managed a 7-member engineering team in the development and launch of a glucose tracking application for both Android and iOS platforms for a US-based client.
- Facilitated cross-functional communication with product management and UX designers across multiple time zones, including on-site client visits.
- Presided over daily scrum meetings.
- Coordinated frontend development efforts and quality assurance processes.
- Independently developed the backend systems.
- Re-architected the database schema for efficient storage of time-series data.
- Constructed a new payment gateway service to enhance customer acquisition through streamlined integration.

Full Stack Javascript Engineer, Accellabs, Cherkasy

01/2015 – 11/2018

- Established the application architecture and developed a web application for real-time emotional state tracking.
- Validated application throughput and scaled it using PM2 to manage 1,500 concurrent users.
- Engineered the frontend component for mapping client partners to their merchants on Google Maps with various filter options.
- Developed the frontend for a web and desktop Electron application utilized by notaries.
- Built and launched two mobile applications (iOS and Android) for a UK museum, enabling exploration of historical events via timelines and maps.

Education

Master's Degree, Software engineering , State Technological University, Cherkasy, Ukraine

2016 – 2018

Bachelor's Degree, Software engineering , State Technological University, Cherkasy, Ukraine

Skills

