

PAVEL TETUEV

Senior Backend Engineer (Go)

Batumi, Georgia

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Summary

Staff-level Software Engineer with 10+ years of experience building distributed systems, cloud-native platforms, fintech products, and high-load services. Specialized in **Go**, **Kubernetes**, **Temporal**, **AWS**, and platform engineering. Proven track record of reducing infrastructure costs, leading engineering teams, and designing scalable architectures from scratch.

Core Expertise

- Distributed Systems
- Platform Engineering
- Kubernetes Operators
- Workflow Orchestration
- High-Load Systems
- Microservices
- Event-Driven Architecture
- Cloud Infrastructure

Work Experience

SpiralScout

- **Senior Software Engineer** Nov 2025 - Feb 2026 · 4 mos

Designed a platform for running AI-generated code in isolated environments using Wippy Runtime.

Integrated **Keycloak** for secure authentication and authorization, ensuring robust access control for users and services.

Created a custom **Kubernetes** controller to manage the lifecycle of AI code execution environments, ensuring efficient resource allocation and isolation.

Contributed to the development of a state management system that stores code generated by users.

Created a **gRPC** API for the platform to allow users to interact with their code execution environments, including secret management.

Go • Kubernetes • Temporal • AWS • PostgreSQL • Keycloak

- **Senior Go Engineer** Sep 2023 - Nov 2025 · 3 yrs 3 mos

Designed and developed a media content processing platform (similar to YouTube) for a large interactive product Demo service using **Go**, **Temporal** and FFMPEG.

Implemented a featured **Kubernetes** auto-scaling logic based on service load, node load and several custom metrics for adding more **AWS** spot instances, which resulted in a **20%** reduction in infrastructure costs, with growth of the overall performance.

Integrated **Kafka** for real-time data streaming, enabling efficient handling of high volumes of media processing tasks and improving system responsiveness.

Set up a several cache layers at **S3** and **CloudFront** side, which reduced the latency of media content delivery to several ms and improved user experience.

Go • Kubernetes • Temporal • AWS • Kafka • FFMPEG

Vacuumlabs

- **Senior Software Engineer** Mar 2023 - Jul 2023 · 5 mos

Architected and developed a **Thought Machine** smart-contract framework for core banking operations (loans, mortgages, savings, and deposits). The framework streamlined development by providing a robust testing library, utility functions, and standardized contract templates.

Thought Machine Vault • Temporal • AWS

- **Software Engineer** Sep 2022 - Mar 2023 · 7 mos

Building Demo neo bank from scratch using microservices architecture, technologically agnostic environment, and self-managed micro teams. Starting with onboarding, accounts, payments, and building React Native mobile applications.

This project used as a Demo for the potential clients, so it was important to make it as stable.

CI/CD • GitHub Actions • Kafka • AWS • Temporal

SpectrumData

- **Senior Go Developer** Jul 2020 - Aug 2022 · 2 yrs 2 mos

Design and development The vehicle Insurance conveyor - a system that collects information about vehicles, drivers, and owners from dozens of sources and calculates insurance policy prices using AI.

My contribution: Designed the platform and developed a large part of the system on **Go**, **Temporal**.

Highlights: Fully **gRPC** network between the services of the conveyor. Each service of the system can get any part of data from the integration level, which allows to build a very flexible product.

Go • Docker • gRPC • MongoDB • CI/CD • PostgreSQL • RabbitMQ • GitLab CI

- **Senior Go Developer** Dec 2019 - Jul 2020 · 8 mos

Working in a R&D team analyzed a company pain points and develop the solutions. One of the main projects was a large-scale distributed automation infrastructure used for data collection and validation, reducing operational costs by **60%**.

Go • Docker • CI/CD • Redis • PostgreSQL • RabbitMQ • GitlabCI

- **Team lead PHP/GO** Oct 2017 - Dec 2019 · 2 yrs 2 mos

A vehicle information service. If you know what Carfax is, you know that the “Avtocod” does. My contribution: - Leading development team of 7 people - Developing and maintaining the website - Web sockets integration

Docker • CI/CD • Redis • PostgreSQL • RabbitMQ • GitlabCI • Keycloak • Temporal • PHP/Laravel/RoadRunner

Previous experience

- Jun 2012 - Oct 2016 · 4 yrs 2 mos

Creation of websites and e-commerce stores.

Education

- **Applied mathematics and computer science (undergraduate)**

Ural State University A.M. Gorky

2013 - 2016

Languages

English (B2)

Russian (Native)