

KAROLOS G. LYKOS

Senior Backend Engineer

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Athens, Greece

Senior backend engineer with 10+ years of experience designing and operating REST/gRPC APIs and event-driven microservices in Go, across energy, post-trade/fintech, and marketplace platforms. I care about reliability and observability as much as shipping features, and I write code and documentation meant to be maintained by someone other than me. Comfortable owning a service end-to-end: design, implementation, testing, monitoring, and on-call.

WORK EXPERIENCE

Senior Backend Engineer

Power Factors - Full-time | Dec 2022 - Present

Power Factors builds software that accelerates the global energy transition, helping owners and operators of renewable energy assets collaborate, automate critical workflows, and maximize asset returns.

- Own the design and development of microservices for the EMS (Energy Management System) team.
- Build and maintain REST and gRPC APIs consumed across the platform.
- Maintain and improve monitoring and alerting to keep production services observable and reliable.
- Stack:** Go, PostgreSQL, Redis, Kafka, gRPC

Senior Backend Engineer

Vsale - Full-time | Dec 2020 - Dec 2022

Vsale is a virtual marketplace giving buyers a personalized online shopping experience. I was responsible for designing, developing, and maintaining Vsale's REST/RPC APIs, internal libraries, and CLI tooling.

- Designed and built Vsale's REST/gRPC APIs.
- Built internal libraries and CLI tools used across engineering.
- Wrote unit and integration tests to guard code quality.
- Wrote documentation so other engineers could pick up the code quickly.
- Stack:** Go, PostgreSQL, Redis, RabbitMQ, Elastic Stack (ELK), gRPC

Full Stack Engineer

Tradeline - Full-time | Apr 2018 - Dec 2020

Tradeline is a post-trade workflow automation platform for the commodity trading industry. I worked across the stack, building the platform's REST/gRPC APIs and frontend.

- Built REST/gRPC APIs for the core platform.
- Contributed to the frontend using Angular 2+.
- Contributed to the in-house UI component library.
- Built Connector, an internal Go service handling bidirectional communication between Hyperledger Fabric and the main platform.
- Worked with fabric-sdk-go and Hyperledger Fabric smart contracts (chaincode).
- Stack:** Node.js, TypeScript, Go, Angular, Redis, RabbitMQ, Elastic Stack (ELK), gRPC

Full Stack Engineer

Enerdia - Full-time | Mar 2017 - Apr 2018

Enerdia builds Ergacis, an integrated platform for solar O&M and asset management. I worked full stack on Ergacis, consuming third-party APIs and helping keep a real-time, high-availability platform running.

- Stack:** PHP, Symfony, Doctrine, JavaScript, MySQL

Software Engineer Intern

Accusonus - Intern | Apr 2016 - Jul 2016

Built a desktop audio application using the JUCE framework.

- Stack:** C++, JUCE

PROJECTS

Feature extraction on handwritten signature images using GPU and CUDA

Thesis

CUDA, feature extraction, GPU, parallel programming

Ansible server deployment

Public

Ansible playbooks for provisioning a Linux server, including my personal website and homelab applications.

Archista

Public

An i3-compatible status bar written in Go, with date/time, sound, media, and Bluetooth widgets.

Hackertea

Public

A terminal UI for browsing Hacker News, written in Go with Bubble Tea.

EDUCATION

MSc Computer Engineering & Informatics

University of Patras

2015 - 2016

BSc Computer Engineering & Informatics

University of Patras

2009 - 2015

COURSES

Machine Learning

Coursera

2020

Fundamentals of Accelerated Computing with CUDA C/C++

Nvidia

2020

Accelerating CUDA C++ Applications with Concurrent Streams

Nvidia

2020

Intro to Parallel Programming

Udacity

2017

SKILLS

Backend & languages

Go, Node.js, PHP

JavaScript, TypeScript, Angular

C++, CUDA

Data & infrastructure

PostgreSQL, MySQL, MongoDB

Git, Docker, Kubernetes, Ansible

Extra skills

MATLAB

Arch Linux user

LANGUAGES

Greek (Native)

English (Professional)

German (B1)

INTERESTS

Kitesurfing

Football

Travelling