

Darko Gjorgjijoski

Software Architect / Senior Software Engineer · AI Systems

Skopje, North Macedonia · Open to remote roles darkog.com linkedin.com/in/gdarko github.com/gdarko

Software architect and senior engineer with 12+ years of experience spanning product engineering, distributed web systems, cloud infrastructure, production reliability, performance, and security. Builds end to end, from system boundaries and application code through delivery and operations. Current focus: trustworthy AI systems with explicit identity, tool contracts, evaluations, human control, and safe failure modes.

CORE CAPABILITIES

Software architecture: system boundaries, APIs, quality attributes, trade-off analysis, modularization, evolutionary design · **AI systems engineering:** agent workflows, tools, retrieval, evaluation, context and memory, human approval · **Production engineering:** Kubernetes, containers, CI/CD, observability, performance, cost, incident readiness · **Security by design:** identity, authorization, least privilege, threat modeling, data and supply-chain risk

PROFESSIONAL EXPERIENCE

Senior Full-stack Developer / Founding Engineer · MegaOptim 2017–Present

- Designed and built an image optimization product serving 1,000+ websites and applications, including API, processing pipeline, customer portal, billing, support, and WordPress automation.
- Built compression workflows producing images up to 92% smaller, plus integration packages and a CLI for non-WordPress applications.
- Designed a load-balanced processing setup with queued workloads, Redis-backed coordination, delivery automation, and operational controls.

Senior WordPress Developer / Product Engineer · CodeVerve 2016–Present

- Built and maintained public and commercial software products, including WP Vimeo Videos (used by 500+ sites) and Digital License Manager.
- Designed licensing, update delivery, payments, media workflows, WooCommerce integrations, and custom REST APIs with long-term maintainability in mind.
- Improved client performance and reliability, including page-speed results above 90 and page loads reduced to approximately two seconds on applicable engagements.

Senior Web Developer · Independent / Remote Clients 2013–2018

- Developed, maintained, and hosted 100+ websites and web applications for local and international clients.
- Improved a document-conversion service handling 100,000+ daily requests and built a learning game serving 1,000+ concurrent users.
- Delivered API integrations, payment and booking workflows, e-commerce systems, learning platforms, infrastructure, and security/performance improvements.

SELECTED CONSULTING ENGAGEMENTS

WordPress / Platform Engineer · Propellor BV 2022–2023

- Refactored and secured a core e-commerce plugin, improving code quality and doubling performance on affected sites.
- Created a purpose-built Linux hosting environment and GitLab CI/CD flow for consistent development and production provisioning.

Software Engineer · Northeastern University 2022–2023

- Built a plugin integrating a custom AI content-suggestion API, data visualizations, and supporting AWS Lambda automations.
- Collaborated on API planning and translated research/product requirements into maintainable application workflows.

SELECTED SYSTEMS AND PRODUCT WORK

InvoiceShelf · Core maintainer since 2024
Open-source invoicing platform. Shipped multi-tenancy, led a cross-layer modular refactor, migrated the front end from untyped JavaScript to TypeScript, and developed AI-assisted invoice scanning for the 3.0 workstream.

Packyard · Author
Self-hosted Composer registry distributed as a single Go binary, with an embedded admin UI, organization-scoped tokens, S3-compatible storage, and GitHub/GitLab package synchronization.

CelerSearch · Founding engineer
Designed and built a managed search platform: Go control plane for instance lifecycle, customer portal and billing, public site, and WordPress integration. The platform has deployed 2,000+ Meilisearch instances.

St. Pete Catalyst · Software engineer
Built a modular news platform and supporting plugins for a high-traffic publication, including publishing tools, events APIs, advertising payments, directories, and data-driven maps.

CURRENT AI SYSTEMS REFERENCE WORK

These are public reference implementations using synthetic scenarios, not client production deployments.

Tenant-safe Support Agent · Published reference
Multi-tenant workflow with server-owned identity, tool-side authorization, cited evidence, and approved writes. Its committed synthetic baseline passed 120/120 cases with zero tenant leaks or unauthorized writes.

Guarded Incident-response Agent · Published reference
Kubernetes lab with a credential-free agent, narrow broker RBAC, typed evidence, and approved fixed actions. Its 60/60 synthetic baseline is paired with a healthy, GitOps-managed isolated live deployment.

ADDITIONAL ENGAGEMENT RECORD

- **Frontier Medicines Corporation (2026)**: interactive clinical pipeline plugin and staff enablement.
- **7055 Inc (2020–2023)**: multi-vendor marketplace, Stripe Connect payouts, events workflow, and GCP deployment.
- **Land Title Association of Mississippi (2018–2021)**: Stripe identity verification, member directory, and legislation tracking.
- **The St. Petersburg Group (2017–2020)**: news platform, shared events API, payment workflows, and publishing tools.

EDUCATION AND PROFESSIONAL STANDING

M.Sc. Software Engineering · Ss. Cyril and Methodius University, FCSE 2024–Present
Focus: software architecture, system design, DevOps and infrastructure, cybersecurity, and AI.

B.Sc. Computer Science & Information Technology · Ss. Cyril and Methodius University, FCSE 2013–2018

TopTal Verified Expert in Engineering, member since May 2020 · Speaker, WordCamp Skopje 2018 and 2019 · Long-term open-source maintainer and contributor.

TECHNICAL FOUNDATION

Languages: Python, Go, PHP, TypeScript/JavaScript, Java, SQL, C/C++ · **AI systems:** LangGraph, LangChain, LangSmith, Amazon Bedrock, AgentCore, OpenRouter, RAG, tool calling, evaluation · **Platforms:** Kubernetes/K3s/EKS/GKE, Docker, AWS, GCP, Azure, Linux, GitHub Actions, GitLab CI/CD · **Data and interfaces:** PostgreSQL, MySQL/MariaDB, Redis, S3, REST, GraphQL, gRPC · **Product engineering:** Laravel, Symfony, WordPress/WooCommerce, React, Vue/Nuxt, Node.js

Public case studies and current profile: darkog.com · CV updated 4 August 2026