

PAVEL ANPIN, 1992

Software Engineer, Consultant, Technical Founder, Hacker

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SUMMARY

Innovative and driven technical founder with extensive experience in software engineering, smart building and audiovisual technologies. Proven ability to manage projects, create scalable solutions, fix obnoxious bugs, collaborate with diverse teams and reduce friction between people and technology. (Currently) passionate about functional programming, reproducibility and distributed systems, with a strong track record of successful projects and satisfied clients. In my spare time I enjoy cycling, baking, tinkering with generative visuals and embedded systems while pondering on the nature of consciousness.

WORK EXPERIENCE

ALERIO

Technical Founder | Dec 2022 - Present

Co-founded Alerio, a smart building software startup, delivering intuitive dashboards, custom automation rules, visualization, offline voice control, and more. My primary focus was on developing software solutions, deploying them to customer servers, develop website and deploy backend services to manage and operate the company, support on-site teams. Our app stack is NixOS, TimescaleDB, F# (Akka.Net, Giraffe, HTMX, DaisyUI). For the company we self-host all our systems on NixOS using declarative NixOS containers including (but not limited to) OpenResty/nginx, Authentik, Attic, Forgejo, PostgreSQL, Clickhouse, Grafana/Mimir/Loki, Minio, Plausible, restic.

INDEPENDENT CONTRACTOR

Dec 2016 - Present (7 yrs +)

- Delivered bespoke software solutions across various domains, with a focus on audio-visual installations, automation systems, full-stack development, and app development.
- Delivered multiple cross-platform apps in Xamarin.Forms + ASP.NET with full CI/CD pipelines and testing, supported and transitioned them into MAUI/Avalonia + ASP.NET Core solutions.
- Transitioned from C# to functional programming with F#, leveraging libraries such as Akka.Net, Giraffe, and Avalonia.
- Gained expertise with a broad range of technologies such as (but not limited to) C#, F#, Nix and NixOS, Lua, C, Rust (embedded), PostgreSQL (and TimescaleDB), SQL, Event Sourcing, CQRS, Akka.Net, Fable, Elmish, sutil, htmx, web rtc, CSS, p5.js, astro, vvvv, shaders, CMAKE, FAKE (F# MAKE), CI/CD pipelines (Azure DevOps, GitLab, GitHub, Gitea/Forgejo), docker, SOPS, GPG, bash, and both cloud and self-hosted environments.
- Cultivated a diverse skill set, enabling versatile and innovative approaches to complex technical challenges.

IMS GROUP LTD

Chief Engineer | Jun 2016 - Sep 2017 (1 yr 4 mos)

- Led engineering workflow development and team training for a newly-formed systems integrator in the hospitality industry.
- Managed projects, supervised engineering and installation teams, and provided sales engineering support.
- Designed systems, commissioned equipment, and conducted post-installation training.
- Specialized in programming and commissioning audiovisual systems, ensuring seamless integration and optimal performance.

AUDIOVIDEOSYSTEMS LTD

Project Engineer | Dec 2015 - May 2016 (6 mos)

- Engineered audiovisual systems, coordinated with clients and contractors, programmed equipment, and provided post-installation training and support.

- Worked within a larger team, contributing to large-scale projects with a structured approach.

8 OHM LTD

Project Engineer | Aug 2013 - Nov 2015 (2 yrs 4 mos)

- Designed audiovisual systems, communicated with customers and contractors, programmed equipment, and conducted post-installation training and support.
- Progressed from summer intern to project engineer, demonstrating adaptability and a strong work ethic.
- Focused heavily on programming and commissioning audiovisual systems, delivering tailored solutions that met clients specific needs.

EDUCATION

SIBERIAN STATE UNIVERSITY OF TELECOMMUNICATIONS AND INFORMATION SCIENCE

Engineer's degree, Audio Visual Technologies | Sep 2009 - Jun 2014 (5 yrs)

Graduation Work: Project of audiovisual complex for universal hall in the hotel "Hermitage" in the city of Yekaterinburg