Gerald Serafin

Software Developer

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Skills

- **Main stack**: TypeScript, JavaScript, SvelteKit / Svelte 5, React, HTML, CSS, Tailwind CSS, TanStack Query, Effect.ts
- **Also work with**: Python, Node.js, NestJS, REST APIs, PostgreSQL, TanStack Form, Effect, Haskell, Flutter, CI/CD
- **Tools**: Git, Nix / NixOS, Windows, Linux, Bash, Figma, Linear, Jira, typst, LaTeX
- **Languages**: Polish (native), English (C1) · **Certificates**: INF.03 / INF.04 (2023), Node.js course at LeverX

Work Experience

Frontend Developer Feb 2026 - Sep 2026
INSY sp. z o.o., insy.io Remote, full-time

- Worked in a startup setting with fast iterations and took part in every stage, from idea to delivery. Cared a lot about UX.
- Took over the frontend early on and kept it moving, shipping key features: the chat, the whole digital product builder, the whole Clipping module and many community features. Built with SvelteKit, Svelte 5 and TypeScript for a platform with over 2,000 paid subscriptions, and looked after the architecture.
- Integrated with the backend API, built complex layouts from Figma designs, and took on backend tasks in NestJS when needed, like new endpoints or extra data in API responses.
- Helped with customer support and administered the site day to day. Actively picked up reported bugs and fixed them fast.

Frontend Developer Jul 2023 - Apr 2024
remote-first.institute, AI Maturity Index (later acquired by ISG) Remote, part-time

- Worked in a startup setting and was very active in shaping the product, its direction and vision, not just implementing tickets.
- Built the frontend of AI Maturity Index, a product where an AI chat assesses a person's readiness to work with AI and their level of adoption, then prepares a development plan. Individual reports were combined into a team one. I worked on the chat, dashboard and team features and wrote the first AI agents.
- Onboarded paying customers and ran demos. Spent six weeks on site in Riyadh with the GAIA accelerator, running hackathons and presenting the product at our LEAP stand.

Mobile Developer Intern May 2023 - Jun 2023
Marotino Inc. On-site, full-time

- Took over Menusso, a Flutter app for ordering food from restaurants (on Google Play), at a stage where it did not even run. Rebuilt it on BLoC and got it to a working MVP.
- Integrated the API and Google Maps, built the UI from Figma designs, and handled test flights and releases on Apple and Android.

Projects

electro geraldserafin.github.io/electro

- Started because I have electronics classes at university and wanted one tool with everything I need: notes, circuit diagrams, simulations, step-by-step solutions, device sync and a nice PDF export. You write a circuit as code and get every step explained: equation, reason and the law behind it (Ohm, Kirchhoff…). Also AC and time-domain simulation (checked against ngspice).
- Runs entirely in the browser on WebAssembly, no backend: the solver is a Python library running through Pyodide, the notebook is React with a schematic editor, plots and an AI assistant. Notes live in a git repo in IndexedDB, synced with GitHub.
- For fun I also added an emulated Raspberry Pi Pico, also running on WebAssembly, that runs real Doom right in the page.

slideit geraldserafin.github.io/slideit

- Born from a university presentation full of code, showing a refactor of classic C++ error handling into monads (`std::optional`, result types). I wanted every improvement clearly visible and the code to tell a story, so I built a tool that animates code changes between slides from an AST diff (tree-sitter and GumTree): unchanged tokens stay, moved ones glide.
- A compiler for a small language on top of KDL: one source builds to a website, an offline HTML file, a PDF or an executable. Has a checker for mistakes, and slides can sit in a scene of layers with a moving camera.
- Published on npm as @geraldserafin/slideit, with a language server, a VS Code extension, a Nix package and a GitHub Action.

More projects on my GitHub: github.com/geraldserafin

Education

Polsko-Japońska Akademia Technik Komputerowych Gdańsk, Poland
Part-time Computer Science, BSc in progress (5th semester) Oct 2024 - Present

Zespół Szkół Łączności, Gdańsk Gdańsk, Poland
Technical Secondary School, IT Technician (programming) Sep 2019 - Jun 2023