

Zakaria Mansouri

Senior Software Engineer · Rust, desktop systems. 9+ years shipping product software. Maintain Fellow's desktop app in Rust and TypeScript (Electron, NAPI, Win/macOS APIs). Author of `nest_struct` on crates.io.

Ottawa, ON, Canada · +1 343 254 1495 · zakman.cs@gmail.com · zak-man.com · [LinkedIn](#) · [GitHub](#)

SKILLS

Rust and native: Rust, NAPI, FFI, proc macros, Tauri, Swift, C#, C, C++

Desktop: Electron, TypeScript, Node.js

Full-stack: React.js, React Native, Kotlin, Java, GraphQL, PHP

Cloud and data: AWS, Terraform, Docker, Kubernetes, PostgreSQL, MySQL, MongoDB

Payments: Stripe, PayPal

Languages: English and Arabic (fluent), French (basic), German (limited)

EXPERIENCE

Software Engineer, Fellow, Ottawa, Canada, August 2025 – now

- Maintain Fellow's **desktop app** (**Electron**, TypeScript, **native layer in Rust / NAPI**) for an AI meeting assistant used by **thousands of users**.
- Make the desktop app's **native code** work **flawlessly** on **Windows and macOS** across **many hardware setups** (C++, Swift) for new AI meeting use cases.
- Own crash reporting, packaging, and distribution.

Senior Full-Stack Engineer, Jimdo, Munich, Germany, August 2024 – August 2025

- Mentor junior engineers and bridge backend and frontend work on a website builder used by **millions of users**.
- Build **Kotlin** and Spring Boot microservices and **React** and TypeScript frontends.
- Maintain WordPress instances, PHP plugins, and custom code.

Senior Software Engineer, Avi Medical, Munich, Germany, August 2022 – July 2024

- Cut medical desktop app runtime by **60%** on the **Electron / Tauri / Rust** path, improving **patient care efficiency**.
- **Automated billing** and other medical tasks so staff could spend more time on patients.
- Hardened backend calls to **external systems** with caching, batching, and retries.

Senior Software Engineer, Deed (YC S21), Berlin, Germany, June 2021 – July 2022

- Delivered **Corporate Batch Payments Processing** on a tight deadline for high-volume **B2B** transactions.
- Built serverless microservices that absorbed **unpredictable loads**, improving system scalability.
- Shipped B2B features on **short notice** across shifting product context.

Full-Stack Developer, AppsIntegra Technologies, Dubai, UAE, February 2020 – March 2021

- Integrated government APIs into **TAMM**, Abu Dhabi's centralized services platform, expanding **service availability**.
- Used Camunda BPM to **automate business processes** such as approvals and escalations.

Full-Stack Developer, Upwork, Biskra, Algeria, November 2017 – February 2020

- Bootstrapped **RaceLab**, a real-time sim-racing desktop app, with Electron, React, and C++.
- Shipped freelance products for startups and small businesses.

PROJECTS

Netglance: Desktop network widget showing live throughput and connectivity, built as a Rust core behind a thin per-platform shell.

Bing Daily Wallpaper: Tray app that sets Bing's image of the day as the desktop wallpaper, built as a Rust core behind a thin per-platform shell.

nest_struct: Proc-macro crate (`syn/quote`) for nested structs and enums, published on crates.io.

Open-source: Sysmon (Rust/Tauri), gpull; contributions to Prisma Auth, Trunk, ImageMagick, Strapi, and Chromenu.

EDUCATION

Master's Degree in Electrical and Electronics Engineering, University of UMKB, Biskra, Algeria, 2017 – 2019
Bachelor's Degree in Electrical and Electronics Engineering, University of UMKB, Biskra, Algeria, 2014 – 2017