

## Mario Kirven

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### Professional Summary

Software Engineer with 3 years of experience in cross-platform mobile development (Flutter/Dart) and backend (Node.js, MySQL, IBM API Connect). Passionate about automation and systems administration, currently training in PowerShell, and DNS management. Known for quickly adapting to new environments, collaborating in agile teams, and designing efficient solutions. Seeking a position as a **Systems Engineer** to apply programming expertise and deepen skills in IT platform administration and automated workflows.

### Professional Experience

#### Mobile Software Engineer

*Sherpapps* (Jan 2022 – Feb 2025) · Remote

- Led development of a cross-platform mobile application in Flutter/Dart for clinical appointment management and data tracking, translating functional requirements into technical specifications.
- Implemented real-time communication features using WebSockets, ensuring low latency and synchronization between devices and server.
- Managed version control and configured CI/CD pipelines with GitHub Actions to automate builds and continuous deployments to the App Store and Play Store.
- Collaborated using Scrum methodology: participated in daily stand-ups, sprint planning, and retrospectives, ensuring on-time deliveries.
- Developed Bash scripts for automated MySQL database backups and log rotation on Ubuntu instances, improving production reliability.

#### Backend Developer

*Banco General de Panamá* (Jan 2021 – Mar 2022) · Panama City, Panama

- Designed and implemented online banking features using Node.js and IBM API Connect, ensuring secure authentication and authorization workflows.
- Wrote advanced MySQL stored procedures to optimize query performance and maintain data integrity in critical transactions.
- Created scripts in Groovy language for managing MySQL database tables.

### Skills & Competencies

- **Systems Administration & Cloud**
  - DNS (Cloudflare, Azure DNS, BIND)
  - Nginx (web server configuration and management)
  - Linux (Ubuntu Server: installation, service configuration, firewall, bash, terminal)
  - PowerShell (administrative scripting on Windows environments)
- **Automation & Scripting**

- Bash (backup, deployment, and maintenance scripts on Linux servers)
- CI/CD: GitHub Actions (automated pipelines), basic Jenkins knowledge
- **Programming & Frameworks**
  - Dart, Flutter (mobile apps, WebSockets integration)
  - JavaScript (Node.js, REST APIs)
  - MySQL (Stored Procedures, query optimization)
  - IBM API Connect (service development and integration)
- **Tools & Methodologies**
  - Git, GitHub (version control, branching strategies)
  - HTML5, CSS3, Javascript Intermediate level
  - Figma, UI/UX (prototyping and interface design)
  - Agile Methodologies (Scrum, Kanban) · Active participation in sprints, planning, and retrospectives
- **Languages**
  - English – Advanced (C1)
  - Spanish – Bilingual
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## Personal Projects

### Chess Game with Flutter + LLM Integration and Web Deployment on Linux Server

- Built a chess engine from scratch in Dart and integrated it into a Flutter app to enable matches against AI opponents.
- Designed prompts for LLMs (OpenAI, Gemini) capable of generating valid chess moves and validating FEN positions, with input validation to prevent model “hallucinations.”
- Provisioned and configured an Ubuntu server on DigitalOcean: installed Nginx, set up Let’s Encrypt SSL certificates, and configured the firewall using [ufw](#).
- Managed DNS settings with Cloudflare to route the custom domain to the server.
- Set up a continuous deployment pipeline using Firebase Hosting and GitHub Actions to publish an interactive web prototype.

## Education & Certifications

- **Bachelor of Science in Software Engineering**  
Technological University of Panama – Panama City, Panama (Apr 2022)

## Additional Information

- **Agile Methodologies:** Acted as Scrum Master occasionally, facilitating daily stand-ups and backlog refinement.
- **Availability:** 100% remote, based in Panama City (UTC–5).