



Nahuel Callalli

**Backend / Full Stack
Software Engineer**

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Software Engineer focused on backend and full-stack development, with experience building automation platforms, internal developer tools, deployment systems, and business-critical applications. Skilled in TypeScript, Node.js, PostgreSQL, Docker, infrastructure management, and third-party integrations. Experienced working directly with clients, defining technical requirements, and developing scalable solutions in agile environments.

Professional Experience

Software Engineer – VenTuring

June 2023 – Present

vTasks – Development & DevOps Automation Platform

- Led the evolution of an internal project management platform integrated with GitHub Projects, providing clients with real-time project visibility without requiring direct GitHub access.
- Reduced task retrieval times from over 10 seconds to under 1 second by designing and implementing a caching layer that eliminated excessive GitHub API requests.
- Improved platform adoption across the development team by optimizing performance and expanding functionality, making it part of the standard development workflow.
- Developed automated Git workflow features including task-based branch creation, pull request management, automated merges, notifications, and task assignment.
- Built AI-powered reporting capabilities for automated progress tracking, client status reports, technical documentation generation, and task analysis.
- Integrated internal deployment automation services, enabling developers to provision environments, manage configuration files, create databases, schedule deployments, and orchestrate multi-project releases from a single platform.
- Automated infrastructure operations including Nginx configuration generation, SSL certificate provisioning, deployment monitoring, and environment management.

Soser – Management Platform Development

- Led the end-to-end development of the application, including backend, infrastructure, and deployment architecture.
- Participated in project discovery and requirement gathering meetings with the client, helping define workflows, technical requirements, and system behavior.
- Worked directly with stakeholders to translate business needs into scalable technical solutions.
- Designed and implemented core platform modules, integrations, and automation features based on client requirements.
- Managed infrastructure configuration and deployment processes.

OneCapture – Capture Workflow Management Platform

- Led and coordinated the development team, defining timelines and driving technical decisions for new feature development.
- Designed a scalable architecture integrating multiple video and image capture SDKs while automating media upload workflows.
- Collaborated with external teams to validate technical solutions and ensure integration feasibility.
- Presented technical proposals and feature ideas directly to clients, translating business requirements into scalable solutions.

- Performed code reviews and established development best practices to improve maintainability and code quality.

Additional projects included logistics management platforms, automation tools, survey/statistics platforms, and pricing data extraction systems.

Professional Education

- Final-year Software Engineering student at the University of Buenos Aires.

Selected Projects

Self-Hosted Media Streaming Platform

- Developed and deployed a private video streaming platform with authentication and media management features.
- Designed a hybrid infrastructure using a self-hosted MinIO object storage instance running on local hardware.
- Configured IPv6 public exposure for direct media access and implemented an IPv4-compatible VPS reverse proxy solution for broader client compatibility.
- Managed HTTPS configuration, DNS routing, Nginx reverse proxying, and deployment infrastructure.
- Built and maintained the complete backend, deployment, and storage architecture.

Deployment Automation Platform

- Developed a self-hosted CI/CD and deployment automation platform for VPS-based applications using a distributed master-agent architecture for multi-server deployment orchestration.
- Implemented automated deployment pipelines triggered through GitHub webhooks, including repository synchronization, environment configuration injection, build execution, and PM2 process management.
- Designed infrastructure automation features such as dynamic Nginx virtual host generation, deployment orchestration, and multi-server management.
- Built backend services and administrative tools using TypeScript, Node.js, Express, React, and relational databases.
- Integrated with internal project management systems to provide centralized deployment orchestration and infrastructure automation.

Technologies

Languages: TypeScript, JavaScript, Go, Python, C/C++

Backend & APIs: Node.js, NestJS, Express, Gin/Gonic, REST APIs, WebSockets, RabbitMQ

Frontend: React, Next.js, Redux

Databases & ORM: PostgreSQL, MySQL, MongoDB, Supabase, TypeORM, Sequelize, Mongoose

Infrastructure & DevOps: Docker, Nginx, PM2, Linux, Git, CI/CD workflows

Tools: Postman, Stripe API, GitHub Webhooks, Figma, Trello

Software Practices: OOP, Design Patterns, Agile Methodologies, Scrum, Kanban, Unit Testing, UML

AI Integrations: OpenAI API, Anthropic API

LANGUAGES

- [English C2 - Proficient](#)
- Spanish Native

ACHIEVEMENTS

- Passed the National Mathematics Olympiad Final (2012 and 2013).
- National Chess Champion 2010 - School category, team competition.
- 3rd place in the National Chess Tournament of the Bicentennial (2010).