

Renato Agustin Lagos Alborno

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Software Engineer with experience in banking, automation, and monitoring. Led the development of a Proactive Monitoring system at Itaú, integrating React and Node.js with RESTful APIs and PostgreSQL. Optimized RPA processes, contributed to AWS cloud migration, and documented APIs using Swagger. Passionate about efficiency, modern technologies, and continuous improvement.

PROFESSIONAL EXPERIENCE

Itaú Software Engineer	Santiago, Chile August 2024–April 2025
<ul style="list-style-type: none">Designed and developed responsive web interfaces using React, Next.js, TypeScript, HTMX, and TailwindCSS, delivering a modern and user-friendly experience for the bank's Proactive Monitoring system.Built interactive dashboards connected to RESTful APIs, displaying real-time alerts and data from RPA processes.Developed secure and scalable APIs with Node.js and Express, including JWT-based authentication, access control, input validation, and endpoint versioning.Implemented automated testing using Jest for backend endpoints and Playwright for critical frontend flows, ensuring system stability.Wrote comprehensive API documentation using Swagger (OpenAPI) to ease integration and accelerate onboarding for development teams.Led the development of a centralized logging system using PostgreSQL, optimizing queries for large-scale RPA event tracking and performance analytics.Integrated legacy RPA tools and backend services using Python, SQL Server Management Studio, and shell scripts, increasing efficiency and traceability.Contributed to AWS cloud migration planning, helping define the architecture for API Gateway, load balancers, and containerized services using Docker and GitHub Actions.Promoted internal documentation practices and drove quality improvements across the development lifecycle.	
KPAZ Software Developer	Santiago, Chile March 2023–July 2024
<ul style="list-style-type: none">Built client-facing web applications with React, Next.js, and TailwindCSS, enabling users to manage and visualize automation workflows via intuitive dashboards.Developed backend features using Node.js and Express, implementing business logic, validation flows, and user management modules.Automated internal processes with Python, PowerShell, and C# scripts, integrating with Blue Prism and desktop-based tools to reduce manual workloads.Migrated the RPA environment from Blue Prism v6.5 to v6.10, including virtual machine setup, bot redeployment, and scheduling configuration.Participated in debugging and maintaining legacy Java applications (Spring and JSP), resolving production issues and upgrading outdated dependencies.Wrote unit and integration tests for automation logic and API endpoints, ensuring system stability during iterative development.	

EY Chile

RPA Developer Staff

Santiago, Chile

February 2022–March 2023

- Developed and maintained Blue Prism bots integrated with Microsoft Office tools, SQL Server, Visual Basic, and C#, automating high-volume reporting, validations, and data migration tasks.
- Contributed to the migration of RPA systems, configuring environments and ensuring smooth handovers with minimal business disruption.
- Designed and implemented responsive web interfaces and HTML/CSS/JavaScript forms to allow internal users to trigger bots and send structured inputs.
- Created dynamic email templates for automated communication with internal clients and departments.
- Automated system backups and monitoring scripts using PowerShell and Visual Basic, improving internal support and reliability
- Supported backend integration with enterprise systems through SQL queries and stored procedures.
- Worked closely with cross-functional teams to map, design, and implement automation solutions tailored to business needs.

ADDITIONAL SKILLS

- Visual Basic for legacy systems and desktop automation
- Java (Spring Framework, JSP) for debugging and maintaining legacy applications
- Docker for containerization and development environments
- Git and GitHub for version control and team collaboration
- Linux terminal usage for scripting, monitoring, and server management
- SQL (PostgreSQL, SQL Server) for data modeling, queries, and performance optimization
- RESTful API design and documentation using Swagger (OpenAPI)
- Cloud migration and architecture planning in AWS environments
- Proficient in Agile methodologies and collaborative development workflows
- Strong foundation in Object-Oriented Programming with Python
- Applied knowledge in Artificial Intelligence and Machine Learning using TensorFlow
- Experience with Flutter for mobile UI prototyping and design
- Multiple courses completed in:
 - Frontend Development (HTML, CSS, JavaScript, React, Next.js, UI/UX design)
 - Backend Development (Node.js, Express, API design, authentication)
 - Databases (PostgreSQL, MySQL, SQL optimization)
 - Computer Science Fundamentals (Data Structures, Algorithms, Complexity)
 - Software Architecture (Design Patterns, Clean Code principles, SOLID)
 - Version control and CI/CD pipelines (Git, GitHub Actions)
- Spanish: Native speaker
- English: Upper-Intermediate – able to communicate effectively in professional and technical contexts

