Ivan Aponte

Software Engineering | Technical Lead

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Summary

Seasoned Software Engineer with over 15 years of experience excelling in both leadership and individual contributor roles. Proficient in Golang, VoIP, cloud-based architecture (Kubernetes, GCP), JavaScript, and microservices, I design and implement innovative cloud solutions and tackle complex software projects. Proven track record of building high-performing teams and delivering results that exceed business objectives.

Experience

IPCOM
Software Team Lead
🔗 https://ipcom.ai

April 2020 - Present
Miramar, FL, USA

- Led the design and development of a highly scalable CPaaS solution utilizing VueJS (front-end), SIP (Kamailio, Asterisk), RTP (RTPEngine), Kubernetes (GKE), REST APIs (Golang), and data storage systems (Postgres, Redis, BigQuery). This solution currently manages over 100M calls and 60M+ SMS monthly, and boasts the capability to securely record and store over 1 billion minutes of voice calls.
- Developed a scalable AI chatbot framework supporting WhatsApp, SMS, and Web platforms. This framework currently handles 100k monthly sessions and has demonstrably scaled to process over 20M+ sessions in a single day for a government client in Latin America, effectively handling peak traffic demands.
- Created user-friendly, low-code/no-code AI-powered solutions allowing clients to design and deploy their own chatbots using a straightforward prompt interface and flowchart for details, empowering them to build custom chatbots without extensive coding knowledge.
- Built and managed a high-performing software development team through strategic hiring, training, and downsizing to optimize resources and meet business goals which is the main growth driver of the company.
- Ensured successful stakeholder alignment by balancing client, provider, cross-departmental, and C-suite expectations, aligning software development with company strategy. Additionally, contributed to maintaining compliance by creating manuals for our ISO9001 and ISO27001 certifications.

Tulip Interfaces
Senior Software Engineer
🔗 https://tulip.co/

Oct 2019 - Apr 2020
Sommerville, MA, USA

- Developed a user management REST API in Golang, providing functionalities for user creation, authentication, and authorization.
- Evaluated Skaffold (skaffold.dev) for integration within our development and CI/CD pipeline. Successfully integrated it to streamline our development experience.
- Developed a hardware authentication system for Tulip, integrating Nymi and WebAuthn technologies. This involved creating dedicated hardware authentication APIs and a user-facing frontend using React and Meteor.

Colegio Jefferson
Senior Software Engineer Contract
🔗 https://colegiojefferson.com

March 2015 - March 2020

- Developed school website & integrated secure PayPal payment processing (improved online presence & streamlined transactions).
- Enabled Single Sign-On (SSO) for school systems by integrating class page with Microsoft 365 (Azure AD) & WordPress.

IPCOM
Senior Software Engineer Contract
🔗 https://ipcom.ai

Mar 2017 - Jul 2019
Bogota, Colombia

- Led development of a highly scalable customer contact solution (90M calls/month) utilizing Asterisk, NodeJS, Redis (backend), VueJS (frontend), and cloud platforms (GCP/AWS) for deployment, TTS, and ASR services.
- Designed and deployed the migration of core business software from a monolithic on-premsie architecture to a cloud-based microservices on Kubernetes, optimizing internal processes and scalability.

Cozy Life (Hyundai Elevators Venezuela)
Senior Software Engineer

Jan 2018 - Aug 2018
Caracas, Venezuela

Implemented an IoT solution for real-time monitoring of 500+ elevators. Designed and developed a custom module using ESP32/FreeRTOS for data transmission via MQTT to a cloud based serverless architecture. Created a user-friendly web interface using Vue.js to visualize elevator status, historical downtime data, and maintenance records.

Auglle
Software Development Leader

Feb 2015 - Apr 2017
San Antonio, TX, USA

- Managed two cross-functional developer teams (frontend GUI & backend video processing) to deliver a beta version of an edge-based video surveillance solution.
- Designed firmware for our own hardware working together with the hardware department. Created automated software test to test boards and components.
- Led research and design in networking and video transmission, resulting in a **patent** for an innovative camera with onboard analytics and WebRTC capabilities.

Lemuria Asesores Informaticos
Co-founder/CTO

2002-2008
Caracas, Venezuela

I co-founded Lemuria in 2002. In Lemuria I lead a team of consultants and engineers where we created solutions for a variety of clients of different sizes. We created turnkey solutions like:

* Academic Record Software for a mid-sized university

* VoIP Asterisk based solutions for premium call services (pay-per-minute calls) and predictive dialing for telemarketing, and high traffic political content websites.

* Deployed for several government institutions network services like Email, DNS, File Sharing.

* Developed solutions for websites to increase availability in peak traffic

M4M Interactividad
Consultant

2004-2007
Bogota, Colombia

Worked as a consultant where I lead a team of engineers in VoIP Solutions, Digital telemetry and data center design. We overhaul for a business partner an aging proprietary tdm-based call center into a VoIP Asterisk based solution. Immediate results were the total elimination of annual license fees, reduction from 10 servers to just 2 servers, over 3x capacity and management of overflow calls on peak moments. Our client was also capable of developing new interactive games for its TV and Media clients. I also advised in different matters like data center design, ISP selection and hardware selection.

Education

Universidad Simon Bolivar
Computer Software Engineering
🔗 https://usb.ve

2000 -2007
Bachelor's Degree

Profiles

🔗 apontedev   🔗 panitaxx

Skills

Go (golang)	Typescript	Kubernetes	Javascript
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
GCP	**SDLC**	**VoIP**	
● ● ● ● ○	● ● ● ● ●	● ● ● ● ●	

Patents

Nodal Monitoring Device and System
USPTO
🔗 https://patents.google.com/patent/US10284755B2

May 7 2019

US10284755B2

A camera comprising video analytics, recording and streaming in one device on edge. First surveillance solution with WebRTC protocol.

Languages

Spanish	English
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