

# Jorge Alberto Noguera Dávalos

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Software Engineer with 12+ years of experience developing web applications, mobile apps, and backend systems. Strong background in telecommunications and financial services. Experienced in optimizing database performance and building scalable systems. Currently focused on frontend development with React and TypeScript.

## TECHNICAL SKILLS

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- **Languages:** TypeScript, JavaScript, Java, Dart, PHP, Perl, SQL, HTML/CSS, Go
- **Frontend:** React, React Hook Form, Tailwind CSS, Turborepo, Vitest, Playwright
- **Backend:** Spring Boot, Hibernate, Node.js, RESTful APIs, Go Templates
- **Mobile:** Flutter (iOS/Android), Cross-platform Development
- **Databases:** PostgreSQL, PostGIS, MySQL, Query Optimization
- **Infrastructure:** AWS (CDK, ECS), Docker, GitHub Actions
- **Other:** WebRTC (Toky SDK), WebSockets, SMS Gateways, Kannel, Datadog

## PROFESSIONAL EXPERIENCE

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### Bird B.V.

Software Engineer

Paraguay [Remote]

May 2021 - Present

- Developed multi-region WebRTC connection quality monitoring tool using AWS CDK (TypeScript) and containerized services (Docker/ECS), reducing support cases by 20%.
- Built React-based marketing tools and help center features with a custom renderer using Go Templates (gotmpl).
- Maintained and expanded Toky Phone JavaScript SDK (<https://github.com/tokyapp/toky-phone-js-sdk>), inherited the project after a team member transition, and ensured continuity of client integrations.
- Write and maintain tests using Vitest and Playwright for E2E testing.
- Utilized Datadog for application monitoring and performance optimization across distributed services.
- Enhanced the Toky iOS and Android mobile applications, fixing bugs and improving stability.

### Open Technologies S.A.

Full-Stack Developer

Asunción, Paraguay

June 2012 - January 2021

#### **Key Achievement: SMS Premium System Optimization (March - December 2016)**

- Scaled subscriber base from 1,000 to 100,000 users through system optimization.
- Increased SMS throughput from 100 messages/minute to 600 messages/45 seconds through PostgreSQL query optimization using EXPLAIN ANALYZE and strategic indexing.
- Designed a custom buffer/queue system with a templating engine for personalized messages, processing delivery reports separately to maintain system performance.
- Implemented retry logic with three execution windows (morning, noon, afternoon) for maximum delivery success.

#### **Banking & Financial Services Development**

- Developed RESTful API using Spring Boot/Hibernate for a banking platform with stringent security requirements.
- Integrated PostgreSQL database with REST endpoints to create a robust service layer for transaction processing.
- Built and deployed 4 Flutter mobile applications for financial institutions, each achieving 5,000-10,000 downloads per platform (iOS/Android).

## ***Geospatial & Distribution Systems***

- Led a team of 5 developers to build a distribution system for a mobile carrier company from El Salvador using PostgreSQL with PostGIS extension for geographic data processing.
- Implemented location-based features and territory management capabilities.
- Provided mentorship and knowledge sharing across multiple development teams throughout tenure.

## **Open Technologies S.A.**

Web & Mobile Developer

**Asunción, Paraguay**

*October 2009 - December 2010*

- Developed automated SMS and WAP Push scripts using Perl and PHP, integrated with Kannel Gateway.
- Created mobile applications using proprietary mobc3 platform for various client projects.
- Gained foundational experience in telecommunications and mobile development.

## **EDUCATION**

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### **Universidad Columbia del Paraguay**

Bachelor of Science in Computer Systems Analysis, *Cum Laude*

**Asunción, Paraguay**

*2014*

## **CERTIFICATIONS**

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### **Universitat Politècnica de València**

Mobile Devices for Territory Management - UPValenciaX Online learning initiative / edX Platform

*2015*

### **Universidad Alfonso X El Sabio**

Mobile Developer Expert - Remote certification through Universidad Americana / Red Ilumino partnership

*2015*

## **ADDITIONAL INFORMATION**

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- **Languages:** Spanish (Native), English (Professional Fluency), Portuguese (Conversational).
- **Interests:** Frontend development, WebRTC technologies, telecommunications systems, development for financial institutions.