

# Alejandro Guillén

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2075 Philip Ave, North Vancouver, BC | 778-229-2108

## PROFESSIONAL SUMMARY

Senior Software Engineer / Full-Stack Developer (Regulated Systems & AI Integration) with years of experience delivering regulated, high-availability systems across gaming, embedded, web, and cloud platforms. Proven track record building end-to-end solutions—from hardware integration and APIs to modern front ends and AWS deployments—while leading teams, ensuring GLI compliance, and shipping globally deployed products. Increasingly focused on applying AI tools to accelerate development, automation, and productivity.

## CORE SKILLS

**Languages:** Java, Python, C#, TypeScript, PHP, C++, JavaScript, .NET

**Frontend:** React, Angular, Vue, jQuery, Next.js

**Backend:** Node.js, Express, REST APIs, microservices

**Databases:** MySQL, PostgreSQL, MongoDB, SQLite, SQL, Database Design, XML, JSON

**Cloud & DevOps:** AWS, CI/CD (Jenkins), Git

**Embedded:** Epic 950, VPK80 II, RFID Readers

**Platforms / OS:** Linux, Windows, Unix

**AI & Automation:** OpenAI API, ChatGPT, Prompt Engineering, RAG, LLMs

**Domains:** Regulated Gaming, Kiosks, Cruise Ship Systems, Offline-First Apps, E-commerce, Embedded systems, Real-time platforms, Regulated industries

## PROFESSIONAL EXPERIENCE

### Freelance Full-Stack Developer

#### Vendor Promotions & Event Tracking Platform | 2026 (Project)

- Designed and developed a scalable full-stack web and mobile MVP for vendor promotions, events, and user engagement tracking, focused on referral-based growth and analytics.
- Built a **multi-tenant promotions platform** enabling administrators to create, manage, and publish vendor promotions and events
- Developed a **React + TypeScript frontend** with mobile-first responsive design and cross-platform compatibility (web + Expo mobile)
- Architected and implemented a **Node.js (Express/NestJS) backend API** with modular services for authentication, promotions, and tracking
- Designed a **PostgreSQL relational database schema** supporting users, vendors, promotions, and event tracking data
- Implemented **JWT-based authentication system** with secure role-based access control (Super Admin / Users)
- Built a **tracking and analytics engine** capturing user events (views, clicks, shares, conversions) for future growth insights
- Integrated **AWS S3 media storage** for scalable image uploads and asset management

- Designed a **referral sharing system** with trackable links for attribution and engagement measurement
- Deployed system on cloud-ready architecture (AWS EC2/RDS/S3), optimized for future scaling and microservices evolution
- Defined system architecture supporting future expansion including vendor self-service, advanced analytics, and AI-driven recommendations

**Tech Stack:** React, TypeScript, Expo, Node.js, Express/NestJS, PostgreSQL, AWS (EC2, S3, RDS), JWT, REST APIs

### **Senior Software Engineer – Jackpot Digital**

*2016–2025 | Vancouver, BC & International Cruise Ports*

- Led end-to-end development of the **Jackpot Blitz electronic poker platform**, spanning embedded hardware, web UI, and server-side systems.
- Deployed and supported production systems across **Virgin Voyages, Carnival, and Princess Cruises**, operating in disconnected and bandwidth-constrained environments.
- Oversaw **GLI Class 2, 11, and 24 compliance**, audits, and regulatory approvals.
- Designed APIs and synchronization logic to maintain **high reliability and uptime** across globally distributed installations.
- Mentored developers, introduced code review standards, and improved overall engineering quality and delivery confidence.
- Co-inventor on **US Provisional Patent App. No. 62/460,058** related to multiplayer poker table technology.

### **Freelance Lead Programmer (iOS/Android/Web)**

*2015–2016 | Vancouver, BC*

- Delivered mobile apps and web platforms for local and regional businesses.
- Built an **Uber-style GPS tracking application**, custom Android keyboard, and **BingoNation POS system**.
- Owned client communication, technical planning, implementation, and post-launch support.

### **Software Developer – QwickMedia & BingoNation**

*2010–2015 | Burnaby, BC*

- Developed kiosk and casino software for U.S. gaming markets.
- Built digital signage and interactive systems for **Sears and Walmart**.
- Coordinated technical demos, on-site deployments, and offshore QA teams.

### **Web Programmer – Visible Strategies**

*2006–2010 | Vancouver, BC*

- Developed a municipal reporting platform adopted by multiple **Vancouver-area governments**.

## **Web Programmer (Contract Roles)**

*2005 / Vancouver, BC*

- E-commerce site with PayPal integration (Beauty Biz Supplies).
- Interactive catalog application (Color Energy).

## **EDUCATION & CERTIFICATIONS**

- **Computer Engineering** — UASLP
- **Business Analysis & Systems Design** — BCIT
- **Java Development** — BCIT
- **GLI Certifications:** Class 2, Class 11, Class 24 (Gaming Systems)
- **Jackpot Blitz Poker Table:** - US Provisional Patent App. No. 62/460,058

## **SELECT CLIENTS**

Virgin Voyages • Carnival Cruises • Princess Cruises • City of Vancouver • City of Richmond • Sears • Walmart • University of Phoenix • Multiple U.S. Tribal Casinos • McDonald's • Metrotown

## **OTHER WORK**

- 10+ years in **photography, video editing, and digital content production**
- Website and digital presence management for **The Squarerigger Pub (West Vancouver)**