

# ALEJANDRO COLIN

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## PROFESSIONAL SUMMARY

Results-driven Software Engineer with experience in full-stack web development and operations management. Combines technical expertise in React, Java, and cloud technologies with proven leadership abilities demonstrated through managing large teams and complex systems. Skilled in developing efficient solutions and implementing technical improvements that enhance operational effectiveness.

## AREAS OF EXPERTIS

- |                                 |                       |                       |                           |
|---------------------------------|-----------------------|-----------------------|---------------------------|
| • Full Stack Development        | • Database Management | • System Optimization | • Technical Documentation |
| • React & React Native          | • Team Leadership     | • Cloud Technologies  |                           |
| • Java & JavaScript Programming | • Project Management  | • UI/UX Design        |                           |
|                                 | • Agile Methodologies | • Performance Testing |                           |

## CAREER HIGHLIGHTS

- Successfully developed and launched full-stack applications using React Native, React.js, and Firebase
- Applied agile methodologies as Scrum Master, increasing sprint completion rates by 30%
- Led and mentored teams of over 250+ members while driving operational excellence and process improvements

## PROFESSIONAL EXPERIENCE

### Operations Full-Time Supervisor, Six Flags Magic Mountain | Valencia, CA | January 2024 - Present

- Oversee comprehensive front gate operations including digital ticketing systems, guest services, and multiple specialized departments. Manage cross-functional teams while implementing technical solutions and maintaining operational excellence. Supervise and optimize operations across 10+ guest service divisions including digital ticketing systems and CRM platforms. Implement and maintain technical solutions including Salesforce CRM and digital tracking systems. Lead data-driven decision making through analysis of operational metrics and guest satisfaction data. Manage digital communication channels and team member publications. Oversee technical training programs and digital SOP documentation.

### Freelance Developer, Mission Hills, CA | August 2021 - Present

- Full-stack developer with experience in mobile and web application development, focusing on creating efficient, scalable solutions. Experienced in building cross-platform applications, implementing complex algorithms, and developing user-centric interfaces. Strong foundation in multiple programming languages including Java, JavaScript, C++, Python, and C#, with practical experience in database management, UI/UX design, and system architecture. Proficient with development tools such as DataGrip, Jenkins, and Unity Game Engine, along with cloud platforms AWS and Google Cloud. Well-versed in version control systems including Git and ClearCase, and experienced with agile development methodologies using JIRA. Recently graduated from California State University, Northridge with a B.S. in Computer Science, bringing fresh perspective and current technical knowledge to software development projects.
- **TimeOn-Scheduling Application:** Built a seamless mobile and web application using React Native and React.js. Synchronized real-time data through Firebase services and developed custom hooks for state management and authentication. Engineered responsive UI components ensuring cross-platform compatibility. The integration of automated testing protocols led to a 25% reduction in post-deployment issues.
- **Airline Reservation System:** Engineered a comprehensive database architecture for flight bookings and user data management. Established efficient database operations through JDBC connectivity. Developed a user-friendly GUI using Java Swing for both user and admin interfaces. Implemented secure authentication systems for passenger and admin access. Created a robust reporting system for tracking sales analytics and flight logs.
- **Connect 4 AI:** Created an AI system using minimax algorithm with alpha-beta pruning for efficient move evaluation. Implemented Best First Search with priority queue optimization for move selection. Developed a sophisticated heuristic evaluation system for analyzing board states. Engineered efficient algorithms for win-detection in all directions. Structured the game using object-oriented principles for effective state management.
- **RTS Game Development:** Designed a state machine system to manage various game modes and user interactions. Utilized Unity's NavMesh to implement A\* pathfinding for unit movement. Developed a modular combat system featuring particle effects and damage calculations. Created resource management systems with building placement validation. Implemented an event-driven architecture to handle game state management.