ALEJANDRO RIOS

// FULL-STACK ENGINEER

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SUMMARY

Full-Stack Engineer with 10+ years building secure, mission-critical applications across defense, government, and enterprise — including DoD-grade solutions for the US Air Force and Space Force. Experienced in cross-platform mobile and web development using Flutter and React/Next.js, CI/CD pipeline ownership, and integrating AI tooling into modern development workflows.

EXPERIENCE

Full Stack Developer · Clarity Innovations
Nov 2022 – Present

- Develop and maintain a Flutter-based logistics application for the US Air Force, delivering a secure, performant, DoD-grade mobile solution for mission-critical operations.
- Build and maintain a Next.js information portal for the US Space Force, centralizing mission-critical resources and ensuring a secure, reliable experience for DoD personnel.
- Own and oversee the full release pipeline, ensuring GitLab CI/CD pipelines are passing, resolving any failures, and managing the promotion flow from dev to staging through production.
- Onboard and mentor a continuous rotation of interns, managing environment setup, hands-on technical guidance, pair programming, and ongoing feedback throughout each internship.
- Integrate AI tools into daily workflows to accelerate unit test generation, produce technical documentation, and assist in reviewing teammate merge requests.

Software Engineer II · Samsung Austin Semiconductor
Sep 2019 – Nov 2022

- Served as primary system owner for 2 production-critical applications, ensuring uptime, stability, and continuous improvement across semiconductor manufacturing operations.
- Managed and optimized production process databases, identifying bottlenecks and implementing targeted improvements that increased query performance and system reliability.
- Partnered with international engineering teams across time zones to architect and deliver cross-regional systems that improved manufacturing productivity and product quality standards.

Software Engineer · Conduent
Mar 2019 – Sep 2019

- Co-led a full rewrite and phased migration of a legacy Struts application to React, collaborating with the team to minimize disruption while modernizing the entire front-end stack.
- Designed and built a Java REST API from scratch to support the new React front-end, defining endpoints and data contracts to ensure clean separation between client and server.
- Maintained and triaged the legacy Struts backend throughout the transition period, resolving production issues to ensure uninterrupted service while the new system was rolled out.

Application Developer · Hamer Enterprises
May 2016 – Mar 2019

- Developed and maintained a Java-based payment and billing system used by counties and municipalities across the US to process government payments at scale.
- Designed and implemented a role-based access control system that dynamically adjusted portal navigation and available features based on user roles across the platform.
- Led ADA compliance initiative for the customer-facing portal, ensuring full accessibility standards were met and the interface was fully mobile-responsive for public users.

PROJECTS

Petalos y Arte Flower Shop petalosarte.com
Full e-commerce site for a local business with product browsing, cart, and Stripe checkout.
// React, Node.js, Firebase, Stripe, REST API, Heroku

The Perfect Clean theperfectclean.com
Scheduling system with REST API integration and payment processing for a cleaning service.
// React, Node.js, REST API, Heroku

EDUCATION

B.S. Computer Science
University of Texas
Rio Grande Valley
December 2015

TECHNICAL SKILLS

FRONTEND
→ React
→ Next.js
→ Flutter
→ HTML/CSS
→ JavaScript/TypeScript

BACKEND
→ Node.js
→ Java
→ REST APIs

DATABASES
→ SQL
→ Firebase
→ MongoDB

DEVOPS/TOOLS
→ Git
→ GitLab
→ Docker
→ CI/CD
→ Heroku
→ Jira

AI TOOLS
→ Claude
→ ChatGPT
→ LLM APIs