

Sergio J. Pichardo *Software Engineer*

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📁 EXPERIENCE

Software Engineer

2025 – present

Last Call Media - Mission-critical digital services company

Collaborated on the development of an internal application to track employee performance metrics.

- Spearheaded the containerization of the Next.js 15 measure.team app using Docker, deployed ECS services for scalability, configured health checks and Target groups for reliability, and designed a VPC with public subnets, an ALB, NAT Gateway, private subnets, and RDS instance.
- Migrated from Vercel to AWS to resolve cold-start issues, upgraded from Next.js 13 to Next.js 15, addressing breaking changes, and refactored API routes.
- Automated CI/CD pipeline using GitHub Actions for development and production environments, building and pushing Docker multi-platform images to ECR, provisioning infrastructure with Terraform using S3 remote state, deploying ECS task definition revisions, and integrating automated testing to ensure seamless application updates.

Software Engineer

2024 – 2025

Immigrant Buddies - Immigrant Volunteering Platform

Immigrant Buddies is a platform that connects immigrants with mentors to help them adjust to life in the U.S. by offering support in different areas like employment, culture and language

- Developed a dynamic onboarding component using React, Next.js, and React Context for efficient state management, implementing ShadCN and TailwindCSS for a modern, utility-first design and seamless user experience
- Implemented secure authentication and authorization using Infrastructure as Code with AWS CDK and Amazon Cognito and optimized custom user flows.
- Developed a high-performance GraphQL API using AWS AppSync pipeline resolvers and TypeScript, enhancing query efficiency and flexibility.
- Designed a DynamoDB table following single-table design principles, improving data access patterns and overall application performance.

Software Engineer

2022 – 2023

Armada — Development environments on demand

Armada is a full-stack, open-source application that automates the deployment of pre-configured development environments in the cloud

- Constructed an innovative application built with Node.js, TypeScript, PostgreSQL, Docker and Amazon Web Services (ECS, EC2, EFS, RDS, Cognito, Lambda) to deploy containerized pre-configure development environments to the cloud
- Design AWS cloud networking infrastructure using VPC, Security Groups, and IAM roles and policies, ensuring the application was highly available, scalable, secure and fault-tolerant.
- Optimized the cloud infrastructure by refactoring it using CloudFormation outputs, Constructs, and Nested Stacks to modularize infrastructure and accelerate deployment time

Previous Industry Experience

2013 – 2020

- Prior career in hospitality, marketing, sales and business development

🧠 SKILLS

Languages and Frameworks

Node.js, JavaScript, TypeScript, Python, FastAPI, Go, PostgreSQL, HTML/CSS, Express, React, MongoDB, Git, GitHub, bash, REST APIs, GraphQL, cURL, Prisma, Knex.js, Postman, WebHooks, Testing (Jest, SuperTest, Cypress)

Cloud Computing and Infrastructure

AWS, VPC, EC2, ELB, ECS, EFS, Lambda, API Gateway, EventBridge, SQS, SNS, AppSync, CloudWatch, CloudFront, S3, ACM, GitHub Actions, AppSync, Infrastructure-as-Code, CDK, CloudFormation, Terraform, Cognito, RDS, DynamoDB, Nginx, Docker, Route 53, S3, CloudFront, Serverless Framework

🎓 EDUCATION

Software Engineering

2020 – 2022

Launch School 🔗

A comprehensive multi-year full-stack software engineering school focused on the mastery of core programming skills and fundamentals. For more information, visit <https://launchschool.com/employers>