Luis Rodolfo Molina Molina

Summary

- Luis Molina is a tech savvy professional with a solid foundation in computer systems engineering and extensive experience in Node.js backend development. He has successfully worked on various projects, including maintaining an event-driven backend systems for IoT and smart home solutions, processing device data to enable automated workflows and real-time responses, creating a scalable AWS backend for a mobile consumer app and a backend system a for a web dashboard that connected multiple business services. Knowledgeable in Relational and Non-Relational databases and AWS services, showcasing his adaptability and quick learning to new technologies with a strong work ethic and continuous learning mindset, he is well equipped to contribute to any software development and or engineering endeavor.

Languages

- **Spanish**: Native
- **English**: Advanced

Experience

- TELUS Digital - Backend AWS / Node.js Developer.
- Tree Goat Media (Applaudo Studios) - Backend AWS / Node.js Developer.
- Culligan Water (Applaudo Studios) - Backend Node.js Developer.
- Applaudo Studios - Backend Node.js Developer.

Technical Skills

- **Programming Languages**: Typescript, JavaScript, VTL, Python, PHP
- **Testing**: Jest
- **Methodology**: Scrum
- **Database**: DynamoDB, Elasticsearch/OpenSearch, Redis, PostgreSQL
- **Development**: AWS Lambda Console, Visual Studio Code, AWS Cloud9

- **Application Servers**: Lambda Serverless, EC2, Oracle VM, NestJS, Express.js, FastAPI, Apache
- **Other Skills**: AWS Services, OAuth 2.0, Version Control, Networking servers, Foundational ASM/C/C++ toolchain/debugging for Linux, Embedded, and Windows, IT Troubleshooting, Customer Satisfaction

PROFESSIONAL EXPERIENCE:

Company: TELUS Digital
Dates: 06/2023 – 12/2024
Role: Backend AWS / Node.js Developer
Responsibilities:
- Development of IoT AWS Gateway API & Microservice Workflows
    - Developed AWS Lambda functions using TypeScript/JavaScript to handle and process events
    - Configure AWS IoT Core events
    - Configure AWS EventBridge events
    - DynamoDB CRUD
    - OpenSearch/Elasticsearch mapping design and queries
    - Managed OpenSearch S3 backups
    - Configure AWS SQS queues
    - Configure CloudWatch alarms
    - S3 File Management
    - Maintain AWS Cross Account Deployment Pipeline
    - Configure AWS Cross Account Roles and Policies
    - CDK stack configuration
    - Research and test AWS Services

Company: Tree Goat Media (Applaudo Studios)
Dates: 05/2021 – 06/2023
Role: Backend AWS / Node.js Developer
Responsibilities:
- Plan tasks, Research technologies and Document conclusions.
- Coordinate with the Machine Learning Team
- Development of Marbyl's AWS Appsync GraphQL API (link)
    - Programmed Lambda Resolvers with Typescript/JavaScript to connect multiple AWS services and map body
    - Configure Appsync Subscriptions
    - DynamoDB access patters design and queries

- Elasticsearch mapping design and queries
- DynamoDB stream configuration and Lambda development to feed Elasticsearch docs
- Appsync GraphQL definition
- Configure Appsync Cache and Flushing with VTL
- Configure SQS queue and Develop Lambda for Machine Learning data ingestion
- Develop In-App Messaging with Pinpoint
- Develop Subscription Push Notifications with SNS topics, endpoints and messaging
- Developed CloudWatch alarms
- Developed Slack alarms on data ingestion
- Partially assisted in Cognito/Appsync configuration
- Partially assisted in S3 file management
- Partially assisted in CDK stack configuration
- Partially assisted in Appsync pipeline configuration
- Partially assisted in AWS SAM local testing
- Partially assisted in Machine Learning data management
- Complete multiple DynamoDB massive migrations to Correct faulty data and Adjust existing data to new access patters
- Development of Python FastAPI REST API to implement TensorFlow model to complete proximity search calculations

Company: Culligan Water (Applaudo Studios)
Dates: 08/2020 – 05/2021
Role: Backend Node.js Developer
Responsibilities:
- Development of Enterprise Dashboard's REST API.
  - Enterprise Dashboard designed for monitoring the status of water filters
  - Programmed endpoints with Typescript within the NestJS framework
  - PostgreSQL database design, seeds, migrations and queries
  - Complete massive migrations, restructure and streamline data from outdated APÏ
  - Develop endpoints to export structured data to CSV files
  - Multiple bugfixes

Company: Applaudo Studios
Dates: 12/2019 – 08/2020
Role: Backend Node.js Developer
Responsibilities:
- Research and Documentation of Zoho People's authentication protocols, forms and webhooks (link)
- Research and Development a custom OAuth 2.0, OpenID server (link)
  - Programmed endpoints with Typescript within the NestJS framework
  - Redis was used as a database solution to save and expire login interactions
- Development of Gatekeeper's REST API (link)
  - Gatekeeper: Single sign-in solution for Applaudos' internal applications
  - Programmed endpoints with Typescript within the NestJS framework

- PostgreSQL database design, seeds, migrations and queries
- Integration with Zoho People, connection with employee forms, data migration and webhook configuration
- Mentored and trained junior colleagues, providing guidance and support (link)

Relevant Education & Professional Development:

Title: AWS Certified Cloud Practitioner
Dates: 05/2024

University: University of El Salvador
Title: Computer Systems Engineering
Dates: 01/2014 – current

University: Ricaldone Technical Institute
Title: Bachelor's Degree in Industrial Computer Systems
Dates: 01/2010 – 12/2013

References:

- **Applaudo**
  - Ask for references
- **TELUS Digital**
  - Ask for references

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