Jovan Andrei Tapia Valenzuela

Computer Systems Engineer

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SUMMARY

Software Architect Developer with 8 years of experience. I have experience in Video Analysis, Machine Learning, System Architecture, Database Management, Linux Servers, Classification Algorithms. I'm eager, detail-oriented, and adapted to changing project requirements quickly to meet business goals.

PROFESSIONAL EXPERIENCE

Senior Software Engineer, Technical Lead
Bank of America   📅 2022 - Present   📍 New Jersey

I led a project meant to convert the existing ETS Fraud Sanctions application close to a 24/7 application with minimal downtime.

- Reconfigured database and middleware setup, optimizing Apache and Tomcat configurations.
- Developed and deployed a full-stack web platform using Angular 15 and SpringBoot for real-time data visualization and management.
- Implemented secure and scalable JSON-based communication protocols across MQ channels.
- Enhanced system security by integrating Single Sign-On (SSO) capabilities into Apache servers.
- Designed and executed Python scripts for delta analysis in graph visualization, improving data analytics capabilities.
- Customized Oracle DB stored procedures and Bash scripts for data sanitization, ensuring data integrity and compliance.

Senior Software Engineer, Technical Lead
Freddie Mac   📅 2020 - 2022   📍 Mclean, VA

Led team to modernize the Loan Product Advisor application with newer technologies like AWS, MongoDB, Kubernetes.

- Implemented Singleton configuration across microservices to maintain data consistency and integrity.
- Architected and deployed a serverless web application using AWS Lambda, reducing operational costs and improving scalability.
- Authored Python scripts for efficient AWS resource management, automating data retrieval and storage processes.
- Developed a user-friendly Angular10 interface, significantly enhancing operational efficiency and user satisfaction.
- Trained more than 10 new resources for over 40 hours each.

Senior Software Engineer
Freddie Mac   📅 2016 - 2020   📍 Mclean, VA

- Designed web pages front-end and back-end with JSP, HTML, and CSS.
- Executed more than 10 DCUs per quarter for database related issues.
- In charge of designing Jenkins pipeline.
- Created shell scripts to automate jobs in Linux server.
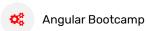
KEY ACHIEVEMENTS

Automated Apps
Fully coded the front-end and back-end of a webpage for the team to allow them to easily manage 100+ servers in a dynamic Angular site.

Performance Optimization
Created a python framework with allowed to visualize the performance of the database, which helped detect errors before going to production.

COURSES

🔴 AWS Certified Developer - Associate

⚙️ Angular Bootcamp

TECHNICAL SKILLS

IT

Java   Python   C   HTML   CSS

Javascript   Angular   JQuery   Oracle

Sybase   MongoDB   AWS   REST APIs

Docker   Springboot   Machine Learning

WebServices   Prompt Engineering

DevOps Tools

Jenkins   Ansible   Puppet   GIT

EDUCATION

B.S. Computer Science
Monterrey Institute of Technology and Higher Education, CEM
📅 2023 - Present   📍 Mexico city

M.S. Computer Science
Monterrey Institute of Technology and Higher Education, CEM
📅 2007 - 2012   📍 Mexico city

STRENGTHS

⚙️ **Independent**
I like to work on independent projects that will enhance the team performance even if it's not part of the main requirements. I'll find the time to make it happen.

📈 **Go-Getter**
I never give up on a goal: I can get a little obsessive over getting something completed, but I'll see projects get finished even if I have to sacrifice some sleep.

⭐ **Self-Learner**
I taught myself to code since I was 12 and have entered and won multiple coding competitions since. My love for technology gives me a motivation to keep looking for things to learn.