Jovan Andrei Tapia Valenzuela

Computer Systems Engineer



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

苗 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

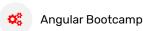
Fully coded the front-end and backend of a webpage for the team to allow them to easily manage 100+ servers in a dynamic Angular site.

Performance Optimization

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

COURSES





TECHNICAL SKILLS

IT

Java	Python		HTML	CSS		
Javasc	ript Ang	gular	JQuery	Oracle		
Sybase	Mong	oDB	AWS	REST APIs		
Docker	Spring	Springboot		Machine Learning		
WebServices Prompt Engineering						

DevOps Tools

Jenkins	Ansible	Puppet	GIT

EDUCATION

M.S. Computer Science

Monterrey Institute of Technology and Higher Education, CEM

B.S. Computer Science

Monterrey Institute of Technology and Higher Education, CEM

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.