

# 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
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### EDUCATION

#### M.S. Computer Science

Monterrey Institute of Technology and Higher Education, CEM

2023 - Present    Mexico city

#### B.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.