

# G. Javier Orellana

Engineer I, Solutions | QA Testing | Scripting & Automation

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## SUMMARY

Aspiring Software Engineer with expertise in embedded systems, scripting, and automation. Skilled in analyzing, developing, and testing telematics and IoT applications with a focus on delivering innovative and efficient solutions. Adept at working in cross-functional teams, ensuring quality assurance, and optimizing processes through technical creativity and problem-solving.

## EDUCATION

### Bachelor of Science, Computer Science

California State University, Fullerton

17 Graduated May 2024📍 Fullerton, CA

## EXPERIENCE

### Engineer I, Solutions / QA

CalAmp

11/2024 - Present📍 Carlsbad, CA

- Write and maintain PEG2 scripts for embedded telematics devices (LMU-3640) with QA, hardware, and firmware teams.
- Troubleshoot edge-case scenarios in device logic, improving reliability for commercial fleet deployment.
- Analyze and extract CAN bus data, converting vehicle diagnostics into actionable fleet management logic.
- Collaborate with the QA team to automate system verification and reduce manual testing workload.
- Create device profiles from OEM specifications, streamlining fleet onboarding.

### Vehicle Engineering Test Intern

CalAmp

06/2024 - 11/2024📍 Carlsbad, CA

- Generated automation scripts to convert OEM vehicle command sets into CalAmp profiles.
- Collected and analyzed IoT/telematics data for visualization of trends and insights.
- Developed and tested software for IoT device integration within automotive systems.
- Automated Python scripts and extracted CAN bus data into SQL databases.

### Software Developer

Backend Nerds - CSU Fullerton

01/2024 - 06/2024📍 Fullerton, CA

- Designed a scalable NoSQL data model using MongoDB for a shopping database.
- Tested and validated API endpoints using Postman REST client.
- Implemented JWT authentication and password hashing for secure data protection.
- Built API endpoints and database management with Node.js and Express.js.

## SKILLS

### Languages/Scripting:

Python C++ Swift Java HTML5/CSS  
JavaScript (Node.js / React.js / jQuery / Three.js)

### Database Skills:

AWS DB2 MongoDB  
SQL (MySQL / PostgreSQL / NoSQL)

### Dev Tools & Technologies:

Git Jira Postman Selenium  
CI/CD Tools Linux Vim

### Methodologies & Other:

Agile SDLC DevOps SDET  
Automated Testing UX Design AI/ML

## PROJECTS

### TradeBot!

Multi-tier AWS stock trading app with auto-scaling and secure dual-server architecture. Reduced traffic by 20%, increased accuracy by 25%.

### YourWorld!

Finance app providing daily HTTP updates on account balances, investment portfolios, and spending patterns.

### Video Games

2D/3D games using C++, Python, OpenGL, Qt, Blender, and Unreal Engine. Built Space Invaders, platformers, and endless runners.

## INTERESTS

### Innovative Technology

Passionate about leveraging technology to solve real-world problems and drive business growth.

### Mentoring

Dedicated to mentoring young professionals, sharing knowledge to inspire growth in their careers.

## KEY ACHIEVEMENTS

### Quarterly Recognition @ CalAmp

Recognized for project completions contributing to vehicle telematics expansion, creating 40% increase in car diagnostic data.

### ACM @ California State University, Fullerton

Open-Source, Algo, AI, Game Dev member. Google Model Data Visualization. Annual Code Showcase contributor.

## LANGUAGES

### English — Native



### Spanish — Proficient

