

Alexis Orellana

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EDUCATION

University of Houston

Bachelor of Science in Computer Science, Minor in Mathematics

Houston, TX

Aug 2022 – December 2026

EXPERIENCE

Cloud Engineering Intern

Amazon Web Services (AWS)

May 2025 – Aug 2025

Dallas, TX

- Automated the entire software delivery lifecycle by constructing a CI/CD pipeline with AWS CodePipeline, enabling 100% automated, zero-downtime deployments from GitHub to production.
- Developed and deployed a fault-tolerant web application using Application Load Balancer (ALB), Auto Scaling Groups (ASG), EC2, and CI/CD pipelines, achieving automated scaling and 99.9% uptime.
- Resolved complex technical challenges in a global cloud environment by leveraging internal AWS diagnostic tools and applying advanced troubleshooting methodologies to minimize customer-impacting downtime and ensure service reliability.

University of Houston CougarCS

Director of Operations

Houston, TX

December 2025 – Present

- Recruited and managed a 4-person Operations Committee, delegating tasks for event setup, logistics, and inventory management to ensure seamless execution of club activities.
- Orchestrated the procurement and delivery of resources for large-scale events, coordinating directly with the Events Chair and VP of Finance to maintain budget compliance.
- Implemented strict inventory control protocols for the organization's storage, ensuring 100% accountability for club assets and supplies.

Operating Systems Workshop Director

Sep 2024 – Nov 2025

- Directed a monthly workshop series for 30+ students, designing and presenting curriculum on complex OS concepts (concurrency, memory management) that yielded a 15% increase in assessment scores.

PROJECTS

Serverless Metadata Extraction Pipeline – AWS Capstone

Jun 2025 – Aug 2025

- Architected a fully Event-driven, serverless ETL pipeline handling file ingestion via S3, processing via Lambda, and NoSQL storage in DynamoDB, scaling to handle 10,000 concurrent uploads.
- Implemented AWS Step Functions to handle error handling and workflow logic, ensuring reliability during data extraction processes.
- Engineered a secure, user-facing portal via API Gateway and Cognito, enabling authenticated file uploads and metadata retrieval with sub-second latency.

Full-Stack Workshop Management System (React, Node.js, PostgreSQL)

Jan 2025 – Mar 2025

- Engineered a relational database schema to model complex, many-to-many relationships between makers, projects, and materials.
- Implemented advanced SQL triggers to automate critical business logic at the database level.
- Developed a secure role-based access control (RBAC) system using JWT, providing distinct "Admin" (full CRUD) and "Maker" (read/log) permissions that controlled both API endpoints and UI visibility.
- Built a RESTful API with complex, aggregated queries to generate dynamic reports, such as calculating the total material cost for any given project.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (Postgres), MongoDB, JavaScript, HTML/CSS

Cloud & DevOps: AWS (EC2, Lambda, CloudFormation, CloudWatch, IAM) Docker, CI/CD, Git

Frameworks: React, Node.js, Express.js

Certifications: AWS Certified Solutions Architect Assoc., AWS Developer Assoc., AWS AI Practitioner, AWS Cloud Practitioner

Tools: VS Code, Linux, Postman, Bash Scripting