

Emmanuel Silva

Application for Junior Cloud Engineer

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Hiring Manager

BlueRidge Platform Labs

Harrisburg, Pennsylvania

Dear Hiring Manager:

I am applying for the Junior Cloud Engineer internship at BlueRidge Platform Labs. My recent cloud engineering work has focused on building and supporting AWS solutions rather than only studying individual services. In a university practicum, I translated stakeholder requirements into a case-management prototype using ECS, Fargate, EC2, API Gateway, Step Functions, and CloudWatch. I also documented the architecture, deployment assumptions, rollback steps, and follow-up support process so another person could operate the system.

I have practiced the security and delivery work this role requires. For containerized REST services, I created least-privilege IAM roles, stored credentials in Secrets Manager, and tested both permitted and rejected access paths. I built a GitHub Actions pipeline that ran checks, built images, and promoted approved changes through development, test, and production-like environments. In another project, CloudWatch logs and metrics helped me trace failed Step Functions transitions and correct input mappings before a final deployment.

I also bring experience connecting technical decisions to business needs. During my capstone, five stakeholder interviews became user flows, service boundaries, data exchanges, and a logical AWS design. I compared Fargate and EC2 options for operational complexity, scaling behavior, and estimated consumption, then explained the tradeoffs in the technical deliverable. I would welcome the opportunity to contribute that same careful approach to troubleshooting, documentation, change control, and reliable cloud operations at BlueRidge Platform Labs.

Thank you for considering my application. I would welcome the opportunity to discuss how my AWS project experience and practical approach to cloud support could contribute to your team.

Sincerely,

Emmanuel Silva

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