

Jonathan Gaytan

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Summary

Software Engineer at AWS with expertise in Python, cloud infrastructure, and developer tooling. Experience improving SDK reliability, migrating legacy infrastructure, and leading large-scale documentation overhauls. Skilled in designing performant, secure systems that directly improve customer and developer experience.

Education

Texas A&M University

Bachelor of Science in Computer Science (GPA: 3.73, Magna cum laude)

Graduated May 2022

College Station, TX

Experience

Amazon Web Services (AWS)

June 2022 – Present

Software Engineer I, Software Engineer II

New York, NY

- Led documentation modernization initiative for AWS Python SDK (boto3/botocore), addressing 23 accessibility violations to achieve ACR compliance for federal contracts and implementing responsive design that reduced page load times by 99% (3740ms to 30ms).
- Architected and executed infrastructure migration from legacy release systems to unified build platform, streamlining development workflow and eliminating maintenance overhead for preview and production releases.
- Designed internal-only SDK customization framework enabling metadata collection for internal vs. external traffic analysis, supporting data-driven decision making across AWS services.
- Authored comprehensive technical documentation and runbooks for release infrastructure, improving incident response times and enabling seamless developer onboarding.

Amazon Web Services (AWS)

May 2021 – August 2021

Software Engineer Intern

Seattle, WA

- Completed a hands-on bootcamp where I learned to solve advanced problems using AWS services including DynamoDB, S3, and Lambda.
- Contributed to an internal project which automates the building and releasing of AWS SDK products and provides a general framework for developers to use it.

Society of Hispanic Professional Engineers (TAMU Chapter)

June 2020 – June 2022

Director of Technical Affairs

College Station, TX

- Launched SHPE's first-ever SHPEathon (Google-sponsored hackathon), empowering members to gain practical experience and develop technical skills.
- Led the creation of a secure, mobile-friendly networking portal (Ruby on Rails) for SHPE members, alumni, and recruiters with admin approval flows.
- Built a point automation system (Google Apps Script + Sheets) that ingested event form data, updated monthly and master point sheets, and sent automated onboarding emails to new members, reducing manual secretary committee workload by 84%.

Projects

Melody - Personal Music Insights Dashboard | Next.js, Tailwind, Spotify API, OpenAI API

- Built a music analytics dashboard integrating Spotify API and Generative AI (OpenAI GPT-5-mini) to surface listening patterns, tailored recommendations, and lyric/artist analysis.
- Developed shareable, auto-generated summary images for social media, driving engagement and user growth.
- Deployed on Vercel with secure OAuth authentication and optimized caching for smooth performance.

MemberSHPE Platform | Ruby on Rails, JavaScript

- Built secure networking platform for 200+ SHPE members, alumni, and recruiters.
- Implemented approval-based admin system for secure information sharing.

Technical Skills

Languages: Python, JavaScript/TypeScript, Java, HTML/CSS

Technologies: AWS (S3, Lambda, DynamoDB, etc.), AWSCLI, AWS SDK for Python (boto3), AWS CDK, Sphinx, MkDocs