

Mark Bassily

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Summary

Full-stack developer specializing in **AI-powered** and **cloud-based** applications. Experienced in building and deploying production systems using **Next.js**, **NestJS**, and **AWS**. At **Litigation.gg**, implemented **MCP** server-client integrations and developed **APIs** for government data, deployed via **Railway**. At **SPOEM**, built **secure serverless** infrastructure leveraging **AWS Cognito**, **Amplify**, **Lambda**, **S3**, and **API Gateway**. Skilled in integrating AI technologies such as **RAG**, **MCP**, and **agentic workflows** to deliver intelligent, scalable product features. **AWS Certified Developer** focused on automation, data integrity, and modern backend systems.

EDUCATION

Rutgers University | *BS, Computer Science*

Sep 2020 - May 2024

EXPERIENCE

Litigation.gg | *Full-Stack Developer*

May 2025 - Present

- Devised a parser to store the Code of Federal Regulations in PostgreSQL accessible through a NestJS API. Updated weekly with a cron job, ensuring up-to-date legal data.
- Defined wrapper APIs for the Federal Reserve and FOIA with NestJS, saving days of redevelopment effort.
- Integrated MCP Server with a custom MCP Client. Automated resource generation from OpenAPI specs and reducing future code by **50%**.

SPOEM | *Backend Developer*

Jan 2025 - Present

- Integrated Azure API with AWS Lambda and API Gateway, simplifying secure access to Dynamics 365 data, which improved data retrieval efficiency.
- Automated Azure secret rotation with Lambda + Secrets Manager, eliminating manual updates and downtime.
- Secured S3 downloads with signed URLs. Uses Cognito to validate access for restricted files while allowing public files to remain unrestricted.
- Deployed the app using AWS Amplify, managing environment variables and deployment configurations, which streamlined the deployment process and improved application stability.
- Implemented IP-based analytics with ip-api.com + AWS to log geolocation data for all user sessions, enabling traffic insights by region.
- Designed an API endpoint with AWS SES, enabling applications to send transactional emails directly to company domains.

Self-employed | *Freelancer*

May 2024 - Present

- Developed an online learning platform for **100+** churches using Next.js and SQL, supporting thousands of users.
- Created a RAG model to answer questions about HVAC PDFs, increasing HVAC engineer productivity by **~20%**.

Clutch Holdings | *Full Stack Software Engineer Intern*

May 2023 - Aug 2023

- Developed and optimized **15+** features using PostgreSQL, Java, Scala, and React.
- Reduced table loading times by **80%** by optimizing API calls and implementing pagination. Added validation and confirmation pages, reducing invalid entries by **30%**.
- Navigated legacy code when necessary, demonstrating ability to adapt and learn in ambiguous environments.
- Wrote unit and integration tests preventing bugs from reaching users and ensuring reliable deployments.
- Collaborated in agile scrum workflows and managed ticket progress using Jira.

CERTIFICATIONS

- AWS Certified Developer - Associate:** Oct 2024 - Oct 2027

PROJECTS

Portfolio - AWS, Next.js, JSON | markbassily.com

- Authored a dynamic website to showcase my skills, experience, certifications, and projects. (**17+ projects**)

videogen.lol - AWS, Next.js, Stripe | videogen.lol

- Established a platform where users can generate "reddit story" style videos. Payments handled by Stripe.

TECHNICAL SKILLS

- Languages/Frameworks:** JavaScript (React, Next.js, NestJS), SQL (MySQL, PostgreSQL), TypeScript, Java, Python, HTML/CSS (Bootstrap, Tailwind), CSV, JSON, XML
- Technologies:** Git, Docker, Express, Jenkins, Jira, Postman, Stripe, MCP, Rest APIs, Vercel, AWS (S3, API Gateway, DynamoDB, ECS, Cognito, Lambda, Secrets Manager, IAM, CloudWatch, Batch, Amplify), cron
- Interests:** Machine Learning, PyTorch, HuggingFace, Web Scraping