

Adam Dugan

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Summary

Automation Engineer specializing in AI integration and secure cloud architectures using Python, TypeScript, and AWS. Built scalable software across healthcare, finance, and legal sectors, including HIPAA/GDPR-compliant SaaS platforms, AI-powered automation tools reducing manual work by 90%, and VR applications reaching hundreds of thousands globally. Co-founded Language Lab (acquired 2025).

Technical Skills

Python, C#, Go, TypeScript, React, Next.js, Unity, Git, AWS (Amplify, CDK, Lambda, DynamoDB, S3, KMS), Azure, LLMs, Bedrock, Twilio, CI/CD, GitHub Actions, OAuth2

Experience

Automation Engineer

Versytech LLC

Aug 2023 – Present

- Built AI-powered financial advisory platform: used Python, Go, and TypeScript to automate bookkeeping ingestion with OAuth2, Quickbooks/Xero, and implemented live LLM-driven insights, GDPR-compliant (MyBalancingIQ).
- Used Python to engineer data condensing, cleaning, and transformation workflows for AI-ready data ingestion.
- Used Python and Next.js to automate Medicare compliance workflows: reduced form processing time by 90% with HIPAA-compliant CRM and encrypted document handling (SOA Assist Pro).
- Automated deployment pipelines with GitHub Actions and YAML-based CI/CD, reducing deployment time from hours to minutes.
- Implemented Stripe payment processing concurrent with NoSQL database subscription management.
- Architected multi-tenant SaaS infrastructure on AWS with CDK-based IaC, Lambda functions, DynamoDB, S3, and KMS encryption.
- Developed voice-enabled AI assistant, automating customer service workflows with OpenAI + Twilio integration and Azure Speech Services.
- Engineered Python automation solution: court case filing workflows using Selenium and Tkinter.

