

# Adam Dugan

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## Summary

Automation Engineer specializing in AI integration and secure cloud architectures. 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, Rust, C#, TypeScript, JavaScript, HTML/CSS, React, Next.js, Unity, Selenium, 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
<ul style="list-style-type: none"><li>Automated Medicare compliance workflows: reduced form processing time by 90% with HIPAA-compliant CRM and encrypted document handling (SOA Assist Pro).</li><li>Built AI-powered financial advisory platform: automated SMB bookkeeping analysis with QuickBooks/Xero integration and LLM driven insights, GDPR compliance (MyBalancingIQ).</li><li>Engineered Python RPA solution: automated court case filing workflows using Selenium and Tkinter for GUI.</li><li>Architected multi-tenant SaaS infrastructure on AWS with CDK-based IaC, Lambda functions, DynamoDB, S3, and KMS encryption.</li><li>Developed voice-enabled AI assistant, automating customer service workflows with OpenAI + Twilio integration and Azure Speech Services.</li><li>Automated deployment pipelines with GitHub Actions and YAML-based CI/CD, reducing deployment time from hours to minutes.</li></ul>		

Software Engineer	Intelimmerse LLC	Apr 2024 – Present
<ul style="list-style-type: none"><li>Automated back-office operations: reduced manual processing time by 60% using Python scripts, Azure Serverless Functions, and scheduled workflows.</li><li>Developed real-time conversational AI avatars for VR experiences with OpenAI integrations, ElevenLabs text-to-speech, and Unity character controllers.</li><li>Built avatar generation web app by converting user photos to realistic 3D digital avatars using computer vision and Azure Blob Storage.</li></ul>		

- Led Android/Quest port of a large-scale WebXR project: reduced app size by 70% with APK/OBB packaging, Addressables, SideQuest distribution, and optimized performance for mobile VR hardware.
  - Designed adaptive UI systems and multi-user networking for educational VR modules using Photon networking, responsive layouts, and session management.

<b>Lead Engineer</b>	<b>Language Lab (Acquired)</b>	<b>Jun 2020 – Jan 2024</b>
<ul style="list-style-type: none"> <li>Co-founded and engineered a top 3 language learning app on the Meta Quest Store, reached hundreds of thousands of users across 100+ countries, successfully acquired in 2025.</li> <li>Automated content generation with recursive C# algorithms, produced 1,000+ hours of adaptive, procedurally-generated learning scenarios.</li> <li>Built scalable backend infrastructure on Azure, PlayFab integration for analytics, real-time leaderboards, in-app purchases, and user progression tracking.</li> <li>Managed international development team of 10 developers and over 30 translators through product lifecycle, live operations, feature releases, content updates, and platform migrations.</li> </ul>		
<b>Unity/C# Developer</b>	<b>Stargrazer Studios</b>	<b>Dec 2019 – Jun 2020</b>
<ul style="list-style-type: none"> <li>Developed medieval VR combat game for Oculus Quest from concept to production in 6 months.</li> <li>Engineered dynamic NPC AI systems, NavMesh pathfinding, state machines, raycasting-based decision trees for realistic enemy behaviors.</li> <li>Optimized VR performance for standalone hardware, maintained 72 FPS on Quest through Unity Profiler analysis, occlusion culling, and lightmap baking.</li> <li>Implemented immersive VR mechanics using XR Interaction Toolkit and AutoHand, physics-based interactions, grabbing, throwing, archery systems.</li> </ul>		

## LINKS

-  Portfolio - [www.adamdugan.com](http://www.adamdugan.com)
  -  LinkedIn - [www.linkedin.com/in/adam-dugan-918722217](http://www.linkedin.com/in/adam-dugan-918722217)
  -  GitHub – [www.github.com/adamofeden](http://www.github.com/adamofeden)