

Freeman Hubbard

Cloud Engineer · Azure

Azure Solutions Architect Expert · Azure Administrator Associate · Terraform · Entra ID / Intune / M365 · PowerShell & IaC
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Summary

Cloud and infrastructure engineer with more than six years of experience building and operating production web applications, cloud platforms, and Microsoft environments. Designs and operates a live commercial platform spanning hosting, authentication, payments, storage, containerized processing, email, and monitoring, supported by nearly four years of IT operations experience across Azure, Entra ID, Intune, Active Directory, networking, and endpoint management. Microsoft Certified Azure Solutions Architect Expert and Azure Administrator Associate, currently pursuing HashiCorp Terraform Associate and targeting Azure cloud, platform, and infrastructure engineering roles.

Certifications & Credentials

- **Microsoft Certified: Azure Solutions Architect Expert** — earned Aug 2026
- **Microsoft Certified: Azure Administrator Associate** — earned Mar 2026
- **HashiCorp Terraform Associate (004)** — in progress, 2026
- **Microsoft Applied Skills** — Identities & Access with Microsoft Entra (Apr 2026); Secure Storage for Azure Files & Blob Storage (Sep 2025)

Technical Skills

- **Azure & Cloud:** Compute, Networking, Storage, Identity, Monitoring, Backup/DR, Azure Container Apps, Container Registry (ACR), Azure Communication Services, Log Analytics
- **IaC & Automation:** Terraform, PowerShell, GitHub Actions, ARM templates, Azure CLI / Bash
- **Identity & Endpoint:** Entra ID, Intune, Microsoft 365, Active Directory, RBAC, Conditional Access, Google Admin
- **Networking:** VNets & subnets, NSGs, peering, Azure Firewall, DNS, service endpoints
- **Platform & Data:** SvelteKit, Node.js / Bun, PostgreSQL (Neon), Stripe, Cloudflare R2, Docker Compose, n8n, Vercel

Selected Projects

TECHNE — Production Cloud Commerce & Media Platform · techne.fm

- Design and operate a live commercial platform end to end: auth (BetterAuth), Stripe payments and webhooks, private tokenized asset delivery via Cloudflare R2, and transactional + campaign email through Azure Communication Services with delivery and engagement events tracked in Log Analytics. SvelteKit on Vercel, Neon Postgres.
- Built and operate a containerized media-processing worker: archive ingestion, ffmpeg WAV-to-MP3 transcode, R2 upload, and waveform preview generation.
- Migrating the worker to Azure Container Apps Jobs using Azure Storage Queues, KEDA scale-to-zero, Azure Container Registry, managed identity, and Terraform with remote state in Azure Storage. (*in progress*)
- Built an audience and campaign system that combines purchase, download, subscription, and engagement data into computed customer segments, driving consent-aware Azure Communication Services email campaigns and attribution tracking.
- Built an AI content pipeline in n8n: scheduled ingestion using cached hashtag IDs, idempotent dedup by post ID, LLM scoring against a structured rubric, and a JSON contract consumed via webhook in the app.

Professional Experience

IT Systems Administrator (Endpoint & Identity) · Network Outsource

Oct 2022 – Jul 2026

- Selected for an internal AI integration pilot spanning Microsoft Copilot Studio, Model Context Protocol, Slack, and MSP service platforms.

- Developed a Slack OAuth proof of concept in TypeScript/Bun and integrated Slack's hosted MCP server with Microsoft Copilot Studio, validating authentication, connector registration, and tool discovery while investigating orchestration and retrieval limitations.
- Evaluated the same server through a Microsoft 365 federated connector; diagnosed why orchestration skipped invocation despite successful authentication and discovery, and proposed a constrained read-only MCP wrapper exposing compatible search and retrieval tools.
- Administered and improved identity and endpoint workflows across Entra ID, Intune, Microsoft 365, Active Directory, and Google Admin for a 1,500+ device cross-platform environment, including supporting a migration from legacy imaging to cloud-based provisioning and Entra join.
- Used PowerShell to automate operational reporting and endpoint tasks, including Chromebook loaner tracking, Entra ID and Intune data filtering, and silent software installations; administered user, group, and device changes directly through Entra ID, Intune, Active Directory, and Google Admin.
- Supported endpoint enrollment, compliance, identity-access, networking, wireless, and content-filtering operations across Windows and cloud-managed devices.

Web Developer • Digital Realms LLC

Jan 2020 – Oct 2022

- Built, deployed, and maintained production web applications using Vue and Firebase; owned hosting configuration, releases, production fixes, and ongoing maintenance.
- Implemented application features spanning responsive frontend interfaces, Firebase authentication and NoSQL data, Google OAuth, serverless functions, Stripe payments, and third-party API and webhook integrations such as Mailgun.
- Took products from initial concept through deployment, independently handling architecture decisions, debugging, domain and hosting configuration, and live application support.