

UMAIR JIBRAN

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SUMMARY

Senior software engineer with 5 years of production experience across backend systems, cloud infrastructure, and AI/ML. Currently founding engineer at PuppyDog.io, owning backend, DevOps, and AI/ML infrastructure solo, built a mass personalization pipeline producing up to 10,000 tailored video renders per job, led a partial AWS-to-GCP migration delivering ~36% infrastructure cost reduction, and lifted backend test coverage from 0 to ~75% while taking release cadence from biweekly to daily. Previously Backend Tech Lead at ProductBox (first 10 hires), leading two engineering teams across backend, DevOps, and product delivery.

EXPERIENCE

PuppyDog.io — Founding Engineer / Senior Software EngineerRemote | July 2025 – Present

Sole owner of backend, DevOps, and AI/ML infrastructure. Also manage two frontend engineers and a QA engineer.

- Built the **mass personalization pipeline** — fans a single base demo into 10–10,000 personalized video renders per job; integrated with HubSpot, Salesforce, SmartLead, and Slack.
- Led a **partial AWS-to-GCP migration** of GPU inference workloads after scoping surfaced coupling that made a full migration uneconomical — delivered **~36% monthly infrastructure cost reduction**.
- Raised **backend test coverage from 0 to ~75%** and tightened GitHub Actions CI, taking release cadence from biweekly to daily with meaningfully fewer production regressions.
- Led **SOC2 Type I** as primary technical owner — designed logging, access, and encryption controls to auditor specification; SOC2 Type II in progress.
- Productionized open-source PyTorch models (LatentSync, video-retalking, OpenAI Whisper) on NVIDIA T4 / L4 / A100 GPUs with Docker + CUDA runtime containers; managed Terraform across AWS and GCP in a hybrid-cloud topology.

ProductBox — Backend Tech LeadPeshawar, Pakistan | Feb 2024 – July 2025

One of the first 10 hires. Led two engineering teams (3 and 4 engineers) and rescued a stalled project.

- Authored complete **Terraform infrastructure** (EC2, RDS, S3, CloudFront, Lambda) and built an automated Docker + Kubernetes deployment pipeline — cut release time by 75%, enabled 20+ production deploys per week.
- Proposed and implemented an **AWS event-driven architecture** (SQS, EventBridge, Lambda) handling 1,000+ daily transactions with 25% faster processing; optimized database schemas and queries to reduce API response times by over 60%.
- Engineered **meraiD**, a web and cross-platform mobile app with E2E encryption (RSA-2048 + AES-256) and facial recognition; serverless APIs achieved 40% faster transaction processing. Migrated the production codebase from JavaScript to TypeScript, driving runtime errors to near zero.

ProductBox — Full Stack Engineer / Associate Full Stack EngineerMay 2021 – Feb 2024

Luminary Consulting — Backend Consultant (Remote)May 2024 – Sept 2024

- Refactored a Google Drive-style S3-backed data management system, parallelizing controllers to cut API response times by over **50%**; extracted critical services into microservices, reducing system latency by **30%**.

SKILLS

Languages: Python, TypeScript, JavaScript

Backend: Node.js, Express, REST, microservices, event-driven architecture, async job queues

Cloud & DevOps: AWS (EC2, App Runner, Lambda, S3, SQS, EventBridge, CloudFront), GCP (Cloud Run, Compute Engine, L4/A100 GPUs), Terraform, Docker, Kubernetes, GitHub Actions, hybrid-cloud architecture

AI / ML Infra: PyTorch inference, GPU deployment (NVIDIA T4/L4/A100), CUDA runtime, OpenAI Whisper, FFmpeg, OpenAI & Anthropic APIs

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB, Firestore

Observability & Security: Datadog, SOC2 Type I, E2E encryption (RSA-2048 + AES-256)

EDUCATION & OPEN SOURCE

BS Computer Science, City University of Science and Information Technology, Peshawar (Sept 2017 – Nov 2021).

GitHub Foundations Certification (Nov 2024).

Open source: Faker.js (12th top contributor, 14M+ weekly downloads), Serverless Examples (1M+ weekly downloads), Waltzes (author of open-source GenAI cover letter + resume tool).