Shlok Bhakta

254-251-9749 | shlokbhakta1@gmail.com | Cisco, TX | shlokbhakta.dev | linkedin.com/in/shlokbhakta | US CITIZEN

EDUCATION

Texas A&M University - College Station, TX 05/2026

Bachelor of Science in Computer Science - Minor in Cybersecurity **GPA: 3.81/4.00**

- **Relevant Coursework:** Web Programming, Human-Computer Interaction, Software Engineering, Design and Analysis of Algorithms, Operating Systems, Computer Graphics, Cloud Computing

EXPERIENCE

Software Engineer | USAA 05/2025

Enterprise ETL Pipeline San Antonio, TX

- Authored **5** curated **Datadog** dashboards with mission-critical panels and cross-links, saving support teams *~3 hours/day* through faster search and triage.
- Consolidated monitors by expressing checks as code with **Datadog**, **AWS CloudWatch**, and **Terraform**, lowering total checks from *700* to *159* for a *77%* decrease and enabling rapid signal triage.
- Shipped multi-account telemetry by scheduling **AWS Lambda** every *5 minutes* to query **AWS Aurora PostgreSQL** via **Python**, publishing custom metrics to **Datadog** with *0* failures and *100%* observed uptime.
- Suppressed alert noise by deploying **Datadog AI** anomaly and integral monitors across *30* microservices, cutting **Slack** pages from *44/day* to *3/day* and accelerating incident recovery.
- Raised release safety by adding **pytest** unit and end-to-end suites for **PySpark** on **AWS EMR** with **AWS S3** formats (CSV, Parquet, Avro, JSON), delivering a *20%* coverage uplift and catching integration defects pre-production.

Teaching Assistant | Texas A&M University 08/2024

CS 111 - Intro to Programming Concepts College Station, TX

- Coached *23* learners per week in **Java** OOP and debugging during labs, decreasing regrade requests and strengthening algorithmic reasoning.
- Turned around feedback for *180+* submissions weekly with rubric-based reviews, enforcing consistent code quality and timely remediation.

PROJECT EXPERIENCE

Homelab | *Self-Managed Infrastructure* | Proxmox, Docker, Ubuntu, Cloudflare, Tailscale, Nextcloud 01/2018

- Maintained *99.9%* availability across *11* **Dockerized** workloads on two servers by isolating services and monitoring basic health, supporting web apps and demos reliably.
- Lowered external exposure by *89%* with **Cloudflare Tunnels** and **Tailscale VPN**, while preserving secure access to *17* internal applications for remote administration.
- Shortened troubleshooting by *~30%* through *20+* **Obsidian** runbooks documenting failures, fixes, and recovery procedures, improving incident response.

Personal Website | *Full Stack Web Development, Self-Led* | Astro, Svelte, TypeScript, Tailwind, Pocketbase 06/2024

- Accelerated page loads to *<100ms* from *300ms* by adopting **Astro** static site generation, **WebP** image optimization, and font tuning.
- Ran a **Node.js** backend behind **Docker**, sustaining *5,000* concurrent connections during traffic spikes, and shipped automated static **HTML** builds in *~1 minute* using **GitHub Actions**.

Cabin Connect | *TAMUhack 2025 Winner* | Svelte, MongoDB, Cloudflare, Google Gemini 01/2025

- Built a synchronized watch-party UI with **Threlte**/**Three.js** that preloaded scene assets and batched draw work, ensuring responsive camera moves and playback controls on low-power demo hardware.
- Held session alignment within *<2s* by implementing a *1 Hz* playback sync loop against **MongoDB Atlas**, smoothing timeline scrubs and coordinated controls across participants.
- Minimized control latency on globally routed paths by tunneling via **Cloudflare Tunnels**, while composing responsive layouts and accessible landmarks for laptop and in-seat screens.

Alpha | *Tidal Hackathon Spring 2025 Winner* | React, TypeScript, AWS S3, Cloudflare Pages, Python, Flask, OpenRouter AI 03/2025

- Accelerated demo iteration by building a **React + TypeScript** SPA with **Vite** and **Tailwind**, reusing component primitives to keep interactions snappy during on-stage walkthroughs.
- Boosted tool-call reliability from *~25% failure* to *~6%* via prompt-engineered orchestration for **Manim**, **Desmos**, and **Wolfram Alpha**, achieving *~94%* success before judging.
- Stabilized flows by normalizing outputs from **Google Gemini**, **OpenRouter**, and **Claude 3.7 Sonnet** into consistent component states, enabling a flawless demo.

SKILLS

- **Languages:** Python, Java, C++, SQL, TypeScript, JavaScript, HTML, CSS
- **Technologies:** AWS Lambda, AWS S3, AWS Aurora PostgreSQL, AWS EMR, AWS CloudWatch, Datadog Dashboards, Datadog AI Anomaly Monitors, Datadog APM, Linux, Docker, Terraform, Node.js, Git, GitHub, GitHub Actions, GitLab CI/CD, MongoDB, Cloudflare, Proxmox