

ASRAR FAROOQ

Austin, TX | [785-979-6966](tel:785-979-6966) | asrarfarooq3@gmail.com | [GitHub](#) | [LinkedIn](#)

Skills

AI/ML & Distributed Systems: JAX, Pallas, PyTorch, vLLM, LLM Tuning & Evaluation, HPC
Cloud & Infrastructure: Google Cloud, GKE, TPU/GPU Fleet Management, Pulumi, Terraform, Docker
Languages: Python, C/C++, SQL, TypeScript, ReactJS, Django
Data Engineering & Observability: BigQuery, Kafka, Airflow, Beam, Hadoop, Object Storage, Telemetry
Certifications: GCP Professional Cloud Architect, Professional Data Engineer, Professional ML Engineer

Experience

Google **October 2024 – Present**
Cloud Platforms & Infra Engineer Austin, TX

- Managing a multi-thousand node fleet of next-generation TPUs, engineering custom observability pipelines to track stockouts and provisioning latency beyond native GKE capabilities.
- Drove seven-figure FinOps optimizations for a tier-one tech giant’s ML workloads by surfacing low-level cluster telemetry and utilization metrics.
- Spearheaded micro-benchmarking for pre-release accelerator hardware by developing custom Pallas kernels, optimizing low-level performance and hardware utilization for distributed LLM training.
- Architected declarative infrastructure and CI/CD deployment pipelines using Pulumi and Rio to streamline enterprise-tier model training environments.

Stowers Institute for Medical Research **May 2024 – October 2024**
Computational Researcher Kansas City, MO

- Developed full stack bio-informatics tools using MERN stack for re-running and integrating experimental samples.
- Revamped Bioreports tool with Django and Python to automate report creation, reducing analyst workload by 95%.
- Automated pipelines that cut manual analysis and report generation time from days to minutes.

The University of Kansas **February 2022 – July 2024**
Web Developer Lawrence, KS

- Designed and optimized websites for various centers, achieving more than **300,000** page views.
- Launched Wingspan KU web service, a new center to better serve students and faculty in writing and learning.
- Ensured WCAG 2.0 and Section 508 compliance for UASC websites, along with modern design and interface.

Paycom Software, Inc. **May 2023 – August 2023**
Software Engineering Intern OK City, Oklahoma

- Streamlined employee referral process with QR codes by creating auto-completed Referral feature using SPA’s.
- Developed a unified solution for referral tracking and sharing for over **6000** employees.
- Provided exportable referral data for employee and client-side reporting.

Education

University of Kansas **August 2020 – May 2024**
Bachelor of Science in Computer Science Lawrence, KS

GPA: 3.8, Honor Roll, Full Tuition Scholarship, Undergraduate CyberSecurity Certificate, & Tradition of Excellence Award.

Projects

Synpas | *TypeScript, Firebase, Vercel* **Spring 2026 – Present**
– Architecting a scalable online SaaS platform for automated eSIM and iSIM provisioning and centralized IoT fleet management.

Qubit | *Python, Ruby, GitHub Pages* **Summer 2025 – Present**
– Authored and launched a technical blog focused on Artificial Intelligence, Machine Learning, and Cloud Computing to engage with the engineering community.

KUbeSat - Currently in Space | *C, Python* **Summer 2024**
– Collaborated on a student-faculty project to develop cube satellites, focusing on the ADCS subsystem for stabilization and precise mission pointing. Successfully launched to orbit on July 4th 2024 by Firefly Aerospace.