VISHALKIRAN RAICHUR

San José, CA · vishalkiran.raichur@sjsu.edu · github.com/VishalkiranRaichur · linkedin.com/in/vishalkiran-raichur

EDUCATION

San José State University — San José, CA
B.S. Data Science — *Expected May 2028*

EXPERIENCE

Responsible Computing Club, SJSU — Jan 2026 – May 2026
Software Engineering Intern · Backend lead, Luminara — *San José, CA*

- Led the Flask backend of an accessible-reading app: PDF, slide, Word and image (OCR) conversion in and back out, for a team of 6.
- Designed an NLP-flag pipeline where a local llama3 model rewrites only flagged spans, preserving meaning and layout; built JWT auth with disposable-email blocking and rate limiting.

Relling Systems — Dec 2025 – Feb 2026
Project-Based Software Developer — *San Francisco, CA*

- Built a centralized web-based asset management system for ~800 GoPro cameras used by field teams across the U.S.
- Designed an asset-identification and allocation workflow tracking ownership, availability and job-site assignment; iterated from real-world use.

SJSU Software & Computer Engineering Society — Jan 2025 – May 2025
Software Engineering Intern — *San José, CA*

- Built an end-to-end professor review feature for a platform serving 30,000+ students, combining reviews with Rate My Professor data from a GraphQL/Python pipeline.
- Led a 3-person team building a Python/Grafanalib monitoring wrapper: 10 dashboards, ~70% less repeated config code.
- Shipped React/JavaScript features within a 12-person engineering team.

PROJECTS

ORION · AI executive intelligence — FastAPI · Postgres/pgvector · Celery · Next.js

- Bounded AI agent that plans multi-step investigations and writes evidence-backed briefs; every figure comes from a tool result.
- 68 tests in CI; negative control caps confidence at 0.44 and withholds a cause when evidence is removed.

PulseGrid · distributed CI platform — Python · FastAPI · SQLite WAL · Docker

- Pull-based Docker workers with resource matching, leases, heartbeats and stale-worker fencing; YAML workflows run as DAGs.
- Verified GitHub webhooks with duplicate-delivery protection and exact-SHA checkout into read-only workspaces.

Job Beast · job discovery & application orchestration — Python · SQLite · LaTeX · Playwright

- Fit + bounded freshness ranking, cross-source dedup, eligibility gates and evidence-grounded résumé tailoring that never invents a skill.
- Persisted state machine with human-in-the-loop states; used across 100+ real application workflows.

ForgeDB · relational database engine — Java 17 · zero dependencies

- SQL parser, 4 KB binary pages, LRU buffer pool and B+ tree index; tested with a 20,000-key tree and restart persistence.

SLA Copilot · hackathon — PagerDuty · PostHog · Stripe · Linear

- Service-credit workflow joining incident, usage, policy and billing state; deterministic policy engine with read-after-write, exactly-once verification.

LEADERSHIP & VENTURES

Founder, IVK Media — 2026 – Present
Websites, review stands and Instagram for San José businesses; hand-coded site at 60 fps

Adobe Student Ambassador, SJSU — 2025 – Present
Hosted 5+ UI/UX workshops using Adobe Express

TECHNICAL SKILLS

Languages	Python, Java, TypeScript, JavaScript, SQL
Backend & Data	FastAPI, Flask, PostgreSQL, pgvector, SQLite, Redis, Celery, GraphQL, REST
AI	OpenAI API, Ollama, spaCy, RAG, agents, TF-IDF
Web & Infra	React, Next.js, Docker, GitHub Actions, Netlify, Git