

SAURABH JOHRI

saurabhxj@gmail.com | +91 62643 13665 | India | github.com/s-johri | linkedin.com/in/s-johri | s-johri.github.io

Full-Stack Software Engineer · Python/Django + Go · MS AI (Boston University)

~2 years at Code Argo building education-platform software for the BITS Pilani ecosystem serving ~180,000 users. Backend-leaning full-stack across student-portal features, certificate-generation microservices, data pipelines, and backend proxies, with an AI-assisted development workflow.

EXPERIENCE

Software Engineer, Code Argo

Vendor engineering team for the BITS Pilani ecosystem

May 2024 – Present

Remote

- Lead ongoing feature development on **elearn**, a Django student portal with **~180,000 total users** (~75,000 active students); owned frontend development end-to-end early in the engagement.
- Shipped an async/streaming CSV export for large MGPA and student-evaluation datasets, scaling the export limit to **2.5M rows**.
- Added superuser impersonation (“Log in as”) with full audit logging.
- Maintain and extend **elearn-api-proxy** (Go), a certificate/transcript generation microservice pulling program and degree data from an ERP student-status API, with **52,000+ certificates and transcripts generated** to date.
- Built **attendance-sync** (Go), a daily ETL data pipeline parsing course-meeting attendance dumps from a Microsoft API into elearn, with **1.3M+ attendance records processed** to date.
- Developed **discordbot-go**, a Discord/Google account-linking gate bot serving a community of **~250 members**; implemented a reconciliation/self-healing sweep to correct membership drift and migrated identity and cohort-channel storage from local JSON to PostgreSQL, then to Valkey/Redis.
- Co-built **argo-api-proxy** (Go/Fiber) with API-key request authentication, config-driven routing, and hot config reload; replaced in-memory query buffering with streamed response execution.

OPEN SOURCE & PROJECTS

signintech/gopdf | Go, PDF internals, external contribution

[PR #347 \(merged\)](#)

- Contributed **Justify text alignment** for Cell and MultiCell to **gopdf**, a ~2,900-star Go PDF library; **merged upstream** July 2026. Distributes leftover line width via negative TJ glyph-position adjustments so justification coexists with kerning on subset/CID fonts; +455/-3 across 6 files with unit and rendered-PDF integration tests, born from client PDF generation work.

sshush | Go, GitHub Actions, Homebrew

github.com/s-johri/sshush

- Keyboard-driven TUI unifying SSH key management, ssh-agent control, and ~/.ssh/config editing (destructive edits gated with automatic .bak backups) in one Go terminal app. 124 commits, tagged releases, GitHub Actions CI + release pipelines, and a published Homebrew tap; MIT-licensed.

discordbot-go | Go, PostgreSQL, Valkey/Redis, Discord API

github.com/s-johri/discord-verify-bot

- Public mirror of the Code Argo engagement above (see Experience): self-healing membership sync, a PostgreSQL to Valkey/Redis storage migration, and CSV-driven per-cohort role assignment, serving ~250 real community members.

TECHNICAL SKILLS

Languages: Python, Go, JavaScript, SQL, HTML/CSS

Backend & Frameworks: Django, Go Fiber, REST APIs, microservices, HTMX, Tailwind CSS, React (JSX)

Infra & DevOps: Docker & Docker Compose, AWS, Nginx + Vouch Proxy (OAuth2/OIDC SSO), GitHub Actions CI/CD, PostgreSQL, Valkey/Redis caching, BetterStack monitoring, shell scripting

AI Tooling: AI-assisted development (GitHub Copilot agents, Claude Code), local LLM inference (Ollama)

EDUCATION

MS in Artificial Intelligence, Boston University

GPA: 3.8 / 4.0

2022

B.Tech in Electronics & Communication Engineering, IIT Una

2020