Aman Phatak

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Work Experience

Data Oceano   June 2025 - Present
Software Engineer

- Designed and owned the core API microservice for a multi-cloud enterprise backup platform.
- Built a REST API in Go with Redis and PostgreSQL, supporting full and incremental backup orchestration and a multi-tenant architecture.
- Rolled a secure auth layer with JWTs, OAuth 2.0-compliant refresh tokens, bitmask-based RBAC, rate-limiting and OTP-based 2FA.

Scrivener AI   November 2024 – January 2025
Software Engineering Intern

- Built the memory and document retrieval (RAG) system for DANA, an AI legal assistant, using Langchain and PostgreSQL, enabling users to submit and gain insights from legal documents.
- Modernized the Python codebase by introducing type annotations, Pydantic for data validation, and uv for dependency management, improving maintainability and developer experience.

Centre for Mental Health Law and Policy   March 2023 – June 2025
Software Engineering Intern

- Developed an automated web scraping suite in Python for the SIREN and Public Archive projects to scrape newspaper articles from various e-papers, saving over 4000 hours of researcher time.
- Designed a high-throughput scraping system using async I/O, capable of handling dynamic content (Playwright), static HTML (BeautifulSoup), and image-based e-papers (OCR).
- Deployed a CI/CD pipeline using GitHub Actions to automate scheduled scraping workflows.

Art Society of India   September 2023 – February 2024
Freelance Developer

- Built a full-stack Django web app for the All-India Annual Art Exhibition, handling thousands of registrations with AWS S3 for artwork storage, Razorpay for payments, and a blind judging portal.

Projects

Glowworm   *Rust*   [source, demo, blog]
A bias lighting system for Wayland that synchronizes an LED strip to your monitor's colors.
Uses the wlr screencopy and linux dma-buf protocols for fast, zero-copy frame processing.

Manzar   *Rust*   [source]
An animated cat sprite that follows your cursor, in Rust-generated WebAssembly.

Skills

Languages: Python, Rust, Go, TypeScript   Frameworks: Django, Svelte, Gin, FastAPI
Databases: PostgreSQL, MongoDB   Tools: Git, Docker

Education

Bachelor of Computer Application   2022 – 2025
Symbiosis Institute of Computer Studies and Research   Pune, India