

# Aman Phatak

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## Work Experience

### Data Oceano

*Software Engineer*

June 2025 - Present

- 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

*Software Engineering Intern*

November 2024 – January 2025

- 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

*Software Engineering Intern*

March 2023 – June 2025

- 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

*Freelance Developer*

September 2023 – February 2024

- 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

Symbiosis Institute of Computer Studies and Research

2022 – 2025

Pune, India