

ROHIT SURVASE

Software Development | Python | Web Development | AI-Assisted Engineering

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PROFESSIONAL SUMMARY

Computer Engineering undergraduate focused on software development with Python and web technologies. Builds applications with AI coding assistants, then reviews, tests and debugs the output before relying on it. Built a Flask and PostgreSQL student-result management system with admin and public portals, and is developing a TypeScript/Next.js link-auditing platform with a background job queue, argon2id authentication and SSRF-safe request handling. Seeking a software development internship to deepen backend, testing and data-structures skills.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, HTML, CSS

Backend & Frameworks: Flask, Next.js (React), Node.js, REST APIs, Jinja2, Prisma ORM

Databases: PostgreSQL, Supabase (hosted PostgreSQL), SQL schemas with constraints and indexes

Frontend: HTML5, CSS3, JavaScript, Chart.js, responsive design

Testing & Debugging: pytest, Vitest, GitHub Actions CI, debugging and error resolution, test-case generation

Security Basics: Session authentication, bcrypt/argon2id hashing, rate limiting, SSRF protection, input validation (Zod)

APIs & Tools: Git, GitHub, YouTube Data API v3, environment configuration, AI APIs (exploring)

AI-Assisted Development: AI coding assistants for code generation, explanation, debugging and test generation; structured prompt writing; reviewing and modifying AI-generated code; PRD/TRD documentation

Currently Learning: Data Structures & Algorithms, Dart/Flutter, database design, deployment configuration

PROJECTS

Student Result Analysis System | Python, Flask, PostgreSQL (Supabase), Chart.js, pytest

github.com/rohitsurvase08/student-result-management-system

- Built a Flask web application backed by PostgreSQL (Supabase-hosted, psycopg2 over SSL) to manage students, subjects and marks, with a login-protected admin portal and a public result lookup by roll number and date of birth.
- Implemented result logic: percentage, A-F grading, pass/fail rules (40% per subject and overall; absence counts as a fail) and class ranking, with Chart.js analytics and print-friendly individual, class, subject, grade-distribution and class-rank reports.
- Structured the app as a Flask application factory with 9 blueprints and Jinja2 templates; protected admin routes with bcrypt password checks, session authentication, a login-required decorator, parameterized SQL, server-side validators and security response headers.
- Wrote pytest tests for authentication, calculations, validators, routes and database utilities; prepared PRD, TRD and phase-plan documentation.

LinkAudit - Link Health Auditing Platform (*in development*) | TypeScript, Next.js, Prisma, PostgreSQL, pg-boss

github.com/rohitsurvase08/linkaudit

- Building a web platform that audits websites and YouTube channel, playlist and video links for broken and potential affiliate links, with signup/login, audit history and results summaries.
- Designed a two-process architecture: a Next.js 14 app and a background worker that consumes audit jobs from a PostgreSQL-backed pg-boss queue, with graceful shutdown and a Prisma data model.
- Implemented SSRF-safe fetching with undici: connect-time DNS resolution, blocking of private, loopback and link-local IP ranges, connection to the validated IP, and re-validation of every redirect hop.
- Implemented argon2id password hashing, encrypted cookie sessions (iron-session), login and audit-creation rate limits, and a same-origin CSRF check in middleware.
- Added Vitest unit and integration test suites (SSRF, authentication, rate limiting, worker) and a GitHub Actions workflow running lint, type-check, tests and build.

NotiQ - Handwritten Notes App (*in development; private repository*) | Flutter, Dart

- Developing a Flutter app intended to convert handwritten notes into organized documents with PDF and DOCX export; considering Devanagari font support.

EDUCATION

ISBM College of Engineering, Pune (Nande), Maharashtra, India

Bachelor of Engineering (B.E.), Computer Engineering | Currently pursuing

Affiliated to Savitribai Phule Pune University

ADDITIONAL INFORMATION

Languages: English, Hindi, Marathi (spoken communication)