

SUMIT KUMAR JHA SDE I

+91-8506070911 | [sumitjha.dev](#) | [sumitjha1618@gmail.com](#) | [in:sumitjha1618](#) | [github:sumitjhaa](#)

EDUCATION

Motilal Nehru National Institute of Technology, NIT Allahabad

B.Tech in Computer Science and Engineering | 7.85/10 GPA

Prayagraj, UP, India,

2020 - 2024

Dedraj Sewali Devi Todi DAV Kedia Vishwabharti School

Higher secondary Schooling (CBSE Science)

Biratnagar, Nepal,

2017 - 2019

EXPERIENCE

Prismberry | Software Developer

Noida, UP, India | Jan - Nov 2025

- Redesigned reward and tax-filing workflow dashboards, reducing navigation by ~15 steps and boosting load speed by ~40%.
- Delivered front-end architecture across 6 client products, building dashboards from scratch with polymorphic components.
- Overhauled TaxSpanner's dashboard flow, slashing clicks-to-task navigation by ~54% and accelerating UI build cycles.
- Debugged and resolved 60+ production issues on live dashboards, implementing inline validation that cut errors to ~10%.
- Established design-system standards and built a reusable component library scaled across 220+ modules.
- Integrated ITR tax-filing APIs into the ERI dashboard, enabling real-time return validation and submission for business users.

PROJECTS

Poof | FastAPI, Next.js, PostgreSQL, Redis, Docker

GitHub | May - Jun 2026

- Engineered zero-knowledge secret-sharing platform with AES-256-GCM encryption across API, web, CLI, and extension.
- Designed 13 REST endpoints with async FastAPI, PBKDF2-SHA256 hashing (100K iterations), and 6-layer security headers.
- Implemented sliding-window rate limiting (100 req/hour) and 4 expiry models to secure and control secret lifecycle.
- 1,500+ lines of validations and automated tests, covering encryption, expiry and audit trails with keepalive automation.
- Engineered rate limiting and sliding-window request throttling (100 req/hour) to prevent abuse across all endpoints.

TokenProbe | Python, FastAPI, React, TypeScript, Docker, GitHub Actions

GitHub | Mar - Jun 2026

- Built JWT security auditing tool, detecting 14 vulnerability classes including algorithm confusion (RS256 → HS256) attacks.
- Architected Protocol-based Check Registry pattern, enabling security checks with zero cascade across all 14 checks.
- Validated system with 219 unit tests across 11 files in Python, achieving a 100% pass rate with zero false positives found.
- Optimized analysis engine to process tokens in <1 second, sustaining ~100 tokens/sec throughput via batch pipeline mode.
- Shipped GitHub Action with 10 configurable parameters, dockerized for automated JWT auditing across CI/CD pipelines.

MarkNotes | Astro, React, FastAPI, PostgreSQL, TypeScript, WebCrypto

GitHub | Jun 2026

- Built zero-knowledge markdown notes platform with client-side AES-256-GCM encryption and threaded comments.
- Architected 2-layer system, Astro/React frontend, FastAPI backend, across 11 route modules and 10 UI components.
- Designed 8-table schema with 11 indexes, storing only encrypted content so full DB compromise reveals nothing readable.
- Implemented JWT auth (RS256), bcrypt hashing (12 rounds), and multi-tier rate limiting across all API endpoints.
- Validated system with 17 test files covering all routes and models, backed by 10 documented threat mitigations.

SKILLS

Languages	Python, TypeScript, JavaScript, C++
Frameworks	React, Next.js, Astro, FastAPI
Databases	PostgreSQL, Redis, SQLAlchemy, Alembic
Tools	Docker, Git, GitHub Actions, Linux
Linguae	English, Awadhi, Maithili, Nepali, Hindi

POSITIONS OF RESPONSIBILITY

Mentor in Student Mentorship Program, NIT Allahabad

- Mentored 50+ freshmen and sophomores in core CS subjects and career guidance
- Organized technical workshops, coding contests, and hackathons for freshmen.