

KRRISH KIRTIKUMAR BHANUSHALI

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3rd-year Computer Engineering student at K.J. Somaiya College of Engineering, specializing in Cyber Security and Forensics. Builds systems with real business logic — invoice compliance engines, market trackers, and AI-integrated pipelines — with a growing focus on API security, attack-surface analysis, and secure backend architecture.

EDUCATION

K.J. Somaiya College of Engineering — Mumbai, Maharashtra2024 – 2028 (Expected)

B.Tech in Computer Engineering | Honours: Cyber Security and Forensics | CGPA: 8.2/10

PROJECTS

GST Invoice Scanner²⁰²⁶

FastAPI, Python, Groq, PostgreSQL (Neon), JavaScript, Chart.js | [gst-invoice-scanner.vercel.app](#)

- Architected a full-stack invoice processing pipeline using FastAPI and vanilla JavaScript, integrating Groq's Llama 3.3 70B via a structured XML prompt pipeline to extract 15+ GST fields (GSTINs, line items, CGST/SGST/IGST) from PDF and image invoices.
- Built 10+ automated compliance and fraud-detection checks — GSTIN regex validation, mathematical integrity checks ($\text{qty} \times \text{rate} = \text{amount}$), and intrastate/interstate tax rule validation — producing a 0–100 health score graded A–F.
- Designed a multi-tenant PostgreSQL schema (5 tables, 10+ composite indexes) with two-stage duplicate detection (invoice number + seller GSTIN) and a full approval workflow: PROCESSING → PENDING REVIEW → APPROVED/REJECTED.

Cineverse²⁰²⁶

Node.js, Express, PostgreSQL, Supabase, TMDB API, Vanilla JS | [cineverse040406.vercel.app](#)

- Engineered 8 RESTful API endpoints (search, filter, sort, pagination, trending) across a 500,000+ title catalog via TMDB API integration, using Supabase connection pooling on AWS ap-south-1 for low-latency queries.
- Achieved a 98/100 Google Lighthouse score through debounced search, pagination, and local OMDb poster caching.

ShadowAPI — API Attack Surface Discovery & Security Analysis Platform^{In Progress}

Python | Independent security engineering project

- Building a platform to discover undocumented ("shadow") APIs and expand an application's known API attack-surface inventory.
- Designing behavioral analysis to detect drift between expected and observed API behavior, with endpoint-level risk scoring to prioritize exposed or risky endpoints.
- Implementing attack-surface visualization as a hands-on platform for practicing API reconnaissance, security assessment, and vulnerability research.

TECHNICAL SKILLS

- Languages & Frameworks:** C++, Python, JavaScript (ES6+), TypeScript, HTML5/CSS3, Node.js, FastAPI, Express.js, Next.js, React, Tailwind CSS
- Databases:** PostgreSQL, Supabase
- Security & Forensics Tools:** Wireshark, NetworkMiner, Autopsy, FTK Imager, Nmap
- Tools & Cloud:** Git/GitHub, AWS, Netlify, GitHub Pages, Vercel, Power BI

AWARDS & COMPETITIONS

FTC Algo Trade Competition — 1st Place Winner²⁰²⁶

- Won the FTC Algo Trade 2026 competition, designing and backtesting an algorithmic trading strategy deployed under live market conditions.

WorldQuant Brain — Silver Badge²⁰²⁶

- Reached Gold tier on WorldQuant Brain by submitting alphas totaling 5,000+ points, tested against historical market data across multiple asset classes.

TJCTF 2026 — Participant, Team VRCHAMPION²⁰²⁶

- Competed among 1,000+ participants in TJCTF 2026 (Thomas Jefferson High School CTF), placing 429th by solving challenges across cryptography, web exploitation, reverse engineering, and forensics.