

tinywifi

security research - computer vision - product engineering

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PROFILE

Student and independent builder working across web security, computer vision, and focused tools. The work emphasizes reproducible evidence, explicit trust boundaries, accessible interfaces, and systems that remain understandable after deployment.

CAPABILITIES

security research

authorized web assessment, authorization and tenant-isolation review, responsible disclosure, evidence-driven technical writing

computer vision

object-detection pipelines, dataset construction, annotation, evaluation, OpenCV, PyTorch, and Ultralytics

product engineering

TypeScript, JavaScript, Python, C++, Next.js, PWAs, responsive interfaces, browser tooling, and API integration

delivery and operations

Linux, Docker, Nginx, Cloudflare, GitHub Actions, signed immutable releases, monitoring, and privacy-conscious analytics

SELECTED WORK

authorized multi-tenant security review

documented missing authentication, tenant isolation, and object-authorization boundaries across education services while keeping operational targets and real records redacted

CanvasGLSL

public CC0 Fabric mod with an in-game GLSL editor, live compilation, Shadertoy-compatible uniforms, syntax highlighting, and file management

OpenMU

installable student companion that brings digital ID, classes, timetable, transcript, events, alerts, and campus services into one interface

BTS Tracker

real-time Bangkok transit PWA combining arrival countdowns, journey planning, fares, station maps, and accessibility details

corn-kernel grading pipeline

two-layer YOLOv11 and deterministic grading pipeline with per-kernel evidence, custom data annotation, post-processing, and candid model evaluation

TOOLS

TypeScript / JavaScript / Python / C++ / Next.js / React / Bun / OpenCV / PyTorch / Ultralytics / Burp Suite / Wireshark / Docker / Nginx / Cloudflare / GitHub Actions