
KHASERDENE

Security Researcher · Vulnerability Research / AppSec

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Cybersecurity student at MUST (expected Jun 2028), focused on vulnerability research and AppSec. Two high-severity CVEs fixed upstream (Socket.IO, React Router). Open to security and vulnerability research work, in Mongolia or remote.

SECURITY RESEARCH

CVE-2026-33151 · Socket.IO (High)

May 2026

- Fuzzed binary attachment handling; found unbounded attachment count leading to memory exhaustion (DoS).
- Reported with a reproducer; credited in the advisory; fixed upstream in v3.3.5, v3.4.4 and v4.2.6.

CVE-2026-33245 · React Router (High)

May 2026

- Reviewed unstable RSC routing in v7; found javascript: URL handling enabling client-side XSS; credited.

PROJECTS

XPI: pi-xpi

Author · 2026

TypeScript · Bun · MCP · ast-grep · npm [@xaccefy/pi-xpi](https://github.com/xaccefy/pi-xpi)

- Security toolkit for the Pi agent: gated case ledger, exploit search, AST code search, multi-agent pentest pipeline.
- Four npm packages, 20+ GitHub stars; PoC gates require nonce-bound evidence and a control replay.

Ratic

Core Maintainer · 2026

Security-hardened fork of Claude Code, maintained for agent-assisted engineering workflows.

EXPERIENCE

Security Software Engineer · Ember Grand

Feb – Apr 2026

- Built pi-xpi and pi-casefile, Pi agent CLI extensions for recon, case tracking, proof validation and reporting.
- Integrated a RAG pipeline for case analysis to cut draft-report effort.

Freelance Developer

2025 – Present

Delivered a mobile app and a web app for clients end to end: requirements, implementation, deployment.

TECHNICAL SKILLS

Security	vulnerability research · secure code review · fuzzing · binary exploitation · reverse engineering
Tools	Burp Suite · Caido · Ghidra · GDB / pwntdbg · pwntools · angr · Wireshark · Linux · Docker · Git
Languages	Go, Python, Bash (production) · TypeScript, C, Rust (working) · MCP, RAG, Pi Agent extensions

EDUCATION

Mongolian University of Science and Technology, B.Sc. Cybersecurity

Expected Jun 2028

School of Information and Communication Technology · GPA 3.35 · Ulaanbaatar · Google Cybersecurity Certificate, 2025

AWARDS & CTFS

1st	Banksec × Mazaalai Live Hacking (HACKRATIC): solo, offense + defense, live-streamed.	2026
4th	VeriTransit Challenge Final, international A&D wargame (Soonchunhyang Univ. × Khan Bank).	2026
2nd	SICT Olympiad, Sustainable SOC Agents, paper.	2026
2nd	UB Hackathon, cell broadcast integration (team CCS) · AITU CTF Final (HACKRATIC), 7th.	2026
8th overall	Haruuli Zangi 2026, finalist with team HACKRATIC.	2026
Award	Khan Bank Scholarship.	2025

WRITING & LABS

- HackTheBox writeups · ROP Emporium solutions, every challenge with notes · CTFMN walkthroughs.