KHAS-ERDENE

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Security Researcher with confirmed, high-severity CVEs in major open-source frameworks (React Router, Socket.IO). Seeking a Junior Cybersecurity or Vulnerability Research role focused on offensive security, fuzzing, and practical exploitation.

VULNERABILITY RESEARCH

CVE-2026-33151: socket.io-parser (High Severity) **2026**

- Discovered a critical memory exhaustion (OOM) vulnerability via custom protocol fuzzing.
- Responsibly disclosed the flaw, preventing specially crafted packets with unbounded binary attachments from crashing global Node.js production deployments.

CVE-2026-33245: react-router (High Severity) **2026**

- Identified a high-impact Cross-Site Scripting (XSS) vulnerability in React Router v7's RSC (React Server Components) architecture.
- Demonstrated how untrusted redirect handling via `javascript:` targets allows client-side code execution.

EXPERIENCE

Security Software Engineer **Ember Grand**

Ulaanbaatar, Mongolia *2026*

- Engineered a Penetration Testing as a Service (PTaaS) platform for offensive security automation.
- Implemented Retrieval-Augmented Generation (RAG) to automate security analysis and reporting workflows.

AWARDS & COMPETITIONS

VolgaCTF Finalist (Expected Fall 2026 — Russia) **2026**

1st Place — Banksec x Mazala Live Hacking **2026**

2nd Place — Persistent SOC Agents (SICT Olympiad) **2026**

2nd Place — Cell Broadcast Integration (UB Hackathon) **2026**

7th Place — AITU CTF Final (International — Kazakhstan) **2026**

Khan Bank Scholarship Program Recipient **Spring 2025**

7th Place — Empasoft CTF **2025**

11th Place — Haruul Zangi 2025 (Qualified to Stage 2) **2025**

Excellence in English — National English Olympiad Participant **2024**

EDUCATION

Mongolian University of Science and Technology **Ulaanbaatar, Mongolia**

Information and Communication Technology / Cybersecurity Track *Expected 2026*

- **GPA:** 3.35

High School Diploma **Ulaanbaatar, Mongolia**

Graduated with 100% Academic Excellence

TECHNICAL SKILLS

Core: Vulnerability Research, Binary Exploitation, Reverse Engineering, Fuzzing, AppSec, Forensics

Languages: Go, Python, C, Bash, JavaScript, TypeScript

Tooling: Linux, Docker, Git, Burp Suite, Caido, Ghidra, GDB/pwndbg, pwntools, angr, Volatility, Wireshark