

Rakhat Yskak

📍 Astana, Kazakhstan ✉️ yskak.rakhat@gmail.com ☎️ 8 (747) 506 7101 🌐 4ry1337.github.io
📄 [rakhat-yskak](#) 🔄 4ry1337 📧 ary1337

Overview

Software engineer with 5+ years of hands-on experience in systems programming, web development, and distributed systems. **Willing to relocate, Kazakhstani citizen.**

Education

Nazarbayev University <i>MS in Computer Science</i> <ul style="list-style-type: none">GPA: 3.67/4.0	<i>Astana, Kazakhstan</i> <i>Sep 2024 – present</i>
Astana IT University <i>BS in Software Engineering</i> <ul style="list-style-type: none">GPA: 3.56/4.0, High Honors	<i>Astana, Kazakhstan</i> <i>Sep 2021 – Jun 2024</i>

Experience

Junior Software Engineer <i>Business & Technology Services LLP</i> A 3D web-based platform for digital twin of 15 enterprise industrial sites, built with Rust, WebAssembly (WASM), WebGPU and Bevy engine. <ul style="list-style-type: none">Designed recording plugin with configurable sampling rates for performance diagnostics and benchmarking.Developed transport plugin using raycasting to project GPS-tracked vehicles onto 3D models.	<i>Astana, Kazakhstan</i> <i>Dec 2025 – present</i>
Junior Software Engineer <i>ROKY.ROCKS</i> Real-time score tracking system for 20+ schools implementing long polling for improved data reliability. <ul style="list-style-type: none">Acted as cross-functional engineer in Agile environment, resolving critical UI rendering and email delivery issues for 500+ concurrent users.	<i>Astana, Kazakhstan</i> <i>Jun 2023 – Sep 2023</i>

Projects

TCP-AAD C, Python, Bash, iperf3, tc, Jupyter notebooks Evaluated TCP Adaptive Acknowledgment Delay optimized for Wi-Fi frame aggregation. Modified Linux kernel TCP stack to implement microsecond-precision adaptive acknowledgment for Wi-Fi 802.11n/ac aggregation bursts.	<i>Nov 2025 – present</i>
CUDA Lab CUDA, C++ Advanced GPU programming with templated kernels for matrix operations, shared memory optimization, and cuRAND integration for performance benchmarking on NVIDIA hardware.	
Blogging Platform Rust, TypeScript, S3, PostgreSQL, gRPC Full-stack platform with RESTful API using CRDT for merge conflict resolution, enabling simultaneous Markdown editing. Microservices architecture with gRPC communication.	<i>Astana, Kazakhstan</i> <i>Spring 2024</i>
Newsletter Rust, PostgreSQL, DigitalOcean Newsletter management system with RESTful API, email delivery with retry mechanisms. Deployed on DigitalOcean using Docker and CI/CD pipelines.	<i>Astana, Kazakhstan</i> <i>Jan 2025 – Feb 2025</i>

Skills

Languages: Rust, C++, C, CUDA, TypeScript, Python, Go, SQL

Technologies: Git, Docker, PostgreSQL, gRPC, REST API, WebAssembly, WebGPU, CI/CD, Linux Kernel, Parallel Computing, Multithreading, Microservices, Agile

Spoken: English (fluent), Kazakh (native), Russian (bilingual)