

Grigory Shatalin

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EDUCATION

- **University of Colorado Boulder** Boulder, CO
Bachelor of Science in Computer Science; Cumulative Undergraduate GPA: 3.8 Dec 2026
- **Lake Washington Institute of Technology** Kirkland, WA
Associate in Computer Science DTA/MRP; GPA: 4.0 July 2024

EXPERIENCE

- **Undergraduate Research Intern** Boulder, CO
NSF AI Institute for Student-AI Teaming (iSAT) 2025 – Present
 - Developed and optimized **AI classroom partners** in **Python/Typescript**, enhancing response pipelines with **Retrieval-Augmented Generation (RAG)** and multimodal embeddings.
 - Built and tested scalable **multimodal ML systems** (speech, gaze, text, video) with data pipelines for preprocessing, annotation, and evaluation in collaborative learning environments.
- **Software Engineering Intern** Bellevue, WA
Akvelon June 2023 - August 2023
 - Modernized server data handling and added new security features for 4 open-source **Microsoft Power BI** visuals with **TypeScript**. powerbi-visuals-heatmap PR #119.
 - Built **IoT** devices, gathered over **1 million readings** in 3 months, processed the data on temperature, air quality, and other environmental factors with **SQL** in **Azure** to be utilized by the Air Quality project sponsored by the city of Bellevue, WA.

PROJECTS

- **Acting Team Lead and main ML developer** 2024-2025
BuffAI
 - Developed and deployed an **AI-powered** academic planning tool using **Ollama** API to generate personalized course schedules for CU Boulder students.
 - Designed and implemented a full-stack web application with **Node.js**, **SQL**, **JavaScript**, and **Bootstrap**, enabling real-time tracking of degree progress.
- **Hackathon Finalist — MBC 2025 (Top 5 of 200+ submissions)** 2025
Circle & Solana Payments Bounty
 - Built a **non-custodial USDC-to-fiat payment system** that generates a **just-in-time virtual Mastercard** from an on-chain transfer, enabling stablecoin payments on any e-commerce checkout via a custom Chrome extension (JS/HTML/CSS).
 - Implemented a **TypeScript backend** performing Solana devnet USDC transfers to simulate mainnet settlement flows, demonstrating how user-controlled wallets can fund traditional card networks without requiring custody, KYC-heavy onboarding, or platform tokens.

PROGRAMMING SKILLS

- **Languages & Tools:** Python, TypeScript, JavaScript, C, SQL, Bash, Node.js, Chrome Extensions (MV3), Solana (SPL Tokens, RPC), Git, Docker, Linux (RHEL/Ubuntu)
- **ML & Systems:** Retrieval-Augmented Generation (RAG), multimodal ML pipelines, backend APIs, distributed systems concepts, operating systems fundamentals