LUKA ALADASHVILI

SOFTWARE ENGINEER

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ICPC-recognized Software Engineer and Founder specializing in **high-performance backend architectures** and **production-grade AI**. Expert in **C++**, **Java**, and **Python**, with a focus on optimizing distributed systems and deploying **auditable ML pipelines**. Proven track record of bridging **complex algorithmic theory with scalable, revenue-driving products**.

WORK EXPERIENCE

Co-founder & Lead Engineer | 2025 - PRESENT
Fincast (AI-Powered Valuation Platform)

- Engineered a valuation engine processing **5,000+ data points/sec** with **<200 ms latency**
- Developed custom **clustering and deterministic validation logic** to mitigate LLM hallucinations, improving valuation accuracy by **30%**
- Led engineering team; set up **CI/CD, code reviews**, and **production monitoring.**

Freelance Software Engineer | 2023 - PRESENT

- Built and maintained backend systems and APIs in **Java, C++ and Python.**
- Refactored performance-critical **C++** and **Java modules**, optimizing memory allocation to achieve a **30% efficiency gain.**

Teaching Assistant - Programming Methodologies | 2025 - PRESENT
Free University of Tbilisi

- Mentoring **40+ high-performing CS students** in **Java**, focusing on **Memory Management, Concurrency**, and **Object-Oriented Design**
- Grading assignments and assisting with **scaling and optimizing programs.**

Technical Coordinator | 2022 - 2024
Georgian-American School

- Led a **5-person engineering team** to win in **ICYS** and **IJSO** backend challenges.
- Coordinated school tech projects, mentored peers on **programming and clean code**; led weekly code reviews and workshops.

ACHIEVEMENTS

- **ICPC Northern Eurasia Finalist (High Achievement Award)**

Represented Free University in one of the world's most competitive algorithmic regions.

- **Impel AI Emerging Professional Grant**

*Selected for **technical innovation**; awarded a research/development grant for excellence in AI.*

- **National Champion (1st Place) - Bank of Georgia STEM Competition**

*Outperformed **1,000+ participants** in a nationwide STEM competition.*

- **Grand Prize Winner - International AI in Finance Hackathon**

*Engineered a winning **AI-driven investment matchmaking platform** against global competitors.*

EDUCATION

FREE UNIVERSITY OF TBILISI
Mathematics and Computer Science bachelor
GPA: 3.8 / 4.0
Sep 2024 - Present

GAIA
AI Development and Research
Apr 2025 - Present

IT-KNOWLEDGE (UGT)
IT Engineering & Cloud Administration
Sep 2025 - Present

SKILLS

Core Languages

- C++ (High Performance)
- Java (Enterprise)
- Python (ML/Backend)

Algorithms

- ICPC Regionalist and Northern Eurasia Finalist
- Advanced Data Structures
- Complexity Analysis

Infrastructure

- System Design
- API Development
- Docker
- CI/CD
- AWS

AI & Research

- ML Pipelines
- RAG
- Vector Databases
- Fine-tuning
- LangChain