



Demetre Shonia

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Education

University

2021 – 2025

Enrolled at **Kutaisi International University (KIU)** with a 70% scholarship and a 30% Rector's internal grant, fully covering all study expenses. Major in **Computer Science** with a Minor in **Management**.

Academic Achievement & Teaching Contribution

- Ranked among the top students in the first semester (**3.74/4.0 GPA**)
- Awarded a stipend for excellent academic performance.
- Selected as a student teaching assistant for Fundamentals of Programming with Java (Prof. Helmut Seidl, **TUM**)
- Assisted peers with exam preparation, exercises, and key OOP and Java concepts

Extra Curricular Activities

- EuPho 2024 - Served as the Team Singapore guide at the 2024 European Physics Olympiad
- GDSC - Google Developer Student Club hackathon mentor guiding teams on technical implementation, project structure, and Gemini API integration.

Projects

- Handwritten Curve Detector - approximate graphs using three different numerical methods (**Python**)
- Autonomous self-driving cars - for **Duckietown**, implementing computer vision algorithms for lane-following and traffic signal detection to navigate and stop on red lines (**Python**)
- Audio Fractal Visualizer - Quaternion Mandelbrot and Mandelbulb fractal simulator using shaders with audio detection. Applied abstract mathematics and learned shader programming during the project. (**C#, HLSL**)

Bachelor Thesis

- Exploring the use of Large Language Models and Retrieval-Augmented Generation (RAG) to translate natural language into Cypher queries for graph databases
- Conducting research with a team of three under the supervision of Prof. Walter F. Tichy (**KIT**)
- Developed a system for query translation and an automated benchmarking framework to evaluate different translation approaches (**Python, Neo4J**)

Programming Academies

2019 – 2021

- **SCSA** – Completed two Python courses focused on problem-solving and algorithmic thinking
- **Quantum** - Studied computer architecture, C/C++, memory management, abstract algebra, and Arduino development

Mentored by Maksim Iavich (SCSA) and Zaza Omiadze (Quantum Academy).

School

2009 – 2021

Attended Public School **No. 94** (1–9) and **No. 162** (10–12) maintaining top academic performance.

Recognition for Academic Excellence – Full Marks (10/10)

School Years

- Awarded a laptop for solid performance
- Received a Gold Medal for graduating with full marks

7–9

10–12

Academic Honors and Contributions

- Scored the only perfect **10/10** on the 9th year internal math exam among 118 students
- Served as a jury member for the school's internal math championships

Work Experience

alfatraining Bildungszentrum GmbH • Karlsruhe, Germany (Remote) March 2025 – Now

Alfatraining Management System is an online platform for organizing and managing education and training programs, based in Karlsruhe, Baden-Württemberg.

Fullstack Developer (.Net, C#)

- Working on **Kiosk** Management software using **Azure IoT** services for real-time device monitoring.
- Developing a Blazor WebAssembly app for internal project management
- Designing a clean, responsive UI for efficient task tracking and navigation

Co-Founder and CTO of Hoppla • Tbilisi, Georgia 2024 – Now

Hoppla is a successful carpooling Platform connecting passengers and drivers nationwide, generating revenue from booking fees.

Fullstack Developer (Next.js, Flutter)

- Built the frontend using TypeScript, Next.js, and TailwindCSS for a responsive and efficient user interface.
- Deployed the platform and **PostgreSQL** database on Azure VPS using **Docker**
- Used **MinIO** on Azure for primary file storage and Amazon **S3** for backup storage, ensuring scalability,
- Developing a cross-platform mobile app for Android and iOS using **Flutter** for carpooling.

Ailand LLC • Lisbon, Portugal (Remote) 2022 – 2024

Open-world PvPvE shooter with an active pre-launch community, powered by AI-NFT avatars and blockchain-driven in-game tokenomics.

Lead Unity Developer (C#, Unity)

- Led the project Eternity, delivering milestones on time in **C# Unity**, which built trust in the community, boosted **NFT** sales, and helped secure a **\$50,000** investment from a Ukrainian angel investor through team efforts. The success attracted interest from **Silicon Valley**, enhancing the company's image and credibility.
- Developed and tested low-latency **multiplayer** systems, leveraging client-server architecture (Photon Fusion).
- **Optimized** large maps for low-end PCs using a chunk-based approach for terrain management and applying advanced shader and mesh optimizations, boosting frame rates for low-end players by **400%**, while also reducing build size by a factor of **2.5**
- Integrated **Azure's TTS (Text-To-Speech)** and **STT** services for AI-NFT voice interactions. Utilized Azure **PlayFab** to develop and test systems for character customization, shop, inventory, battle pass, loot boxes. -
- Implemented in-app purchases (**IAP**) for game items using **Stripe** integration.

Happy Bat • Tbilisi, Georgia 2020 – 2022

First job at age 17, developing 10+ hyper-casual games solo at a Voodoo-partnered studio.

Game Developer (C#, Unity)

- Gained hands-on experience with 3D graphics, mesh generation, and rope physics
- Worked with blendshapes, animation state machines, and custom gameplay systems

Personal Blockchain & Game Projects 2020 – 2022

Contributed to various Web3 projects, including a blockchain lottery system and Pay2Earn games. Gained experience in smart contract development using **Solidity**.

- Ryoko and Shines NFT – Game developer of the biggest NFT collections in Georgia
- 90's Game – A humorous runner game reflecting life in 1990s Georgia

Interests and Goals

- Member of Georgian Robotic Association - KIU Ambassador for BattleBots 2025 event
- Interested in biology and EEG signal processing
- Part of team building Georgia's first satellite and ground station, using **Jetson Nano** for onboard AI processing
- 5 years of experience playing guitar and piano; skilled in composing original music
- Played basketball competitively for 2 years, developing teamwork and discipline skills
- Languages : **Georgian** (Fluent) · **English** (C1) · **Russian** (A2) · **German** (planned)

Teaching Experience

Passionate about teaching, I created a **YouTube** channel to fill the gap in Georgian-language game development tutorials, growing an active **discord** community of 800+ members with Q&A and direct support. Building on this, I co-founded **Qbit Academy** to advance computer science education in Georgia.

- **Qbit** - Helping Georgian students master **computer science** through high-quality YouTube lectures in a CS50-style format, covering topics from basic Karel programming to advanced Theory of Computation. Gained **1,000** subscribers and over **1,700** watch hours in just 3 months, becoming one of Georgia's most successful educational channels.
- **Shonia** - My first YouTube channel with **2,500+** subscribers and 88 educational videos about game dev.
- **GITA | ICT Trainings** – Mentored 16 schoolchildren in C# and Unity Engine, teaching game development concepts. One student was just 11 years old, making it a uniquely rewarding experience.

Leaderships and Awards

- **Social Impact Award** - Team Hoppla won and attended the SIA Summit in **Mannheim**, Germany (2024)
- **Shark Tank Esade** – Team Hoppla pitched in **Barcelona**, Spain (2025), secured an investor, and is finalizing agreements. The event was co-founded by **KIT** University.
- **NASA Space Apps Challenge** - Awarded 5,000 GEL at the local hackathon by developing an **OCR** handwritten text converter using Python with an n-gram approach. (2023)
- **GAU Startape** - 2nd place for bike-sharing startup. Awarded 500 GEL prize and granted vouchers and admission incentives from Georgian American University
- **Global Hackathons** - As part of Team Ailand, won multiple hackathons including **Polygon EMEA**, **SAGA Multiverse**, **Zeta Chain-Omni Chain Hackathon**, and **BNBChain Q1 2024**.
- **Advanced C# Certification exam** - Passed exam administered by **Peoplecert** and **New Horizons Bulgaria**