Arbenite Canaj

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PROJECT EXPERIENCE

Budapest University of Technology and Economics (BME) **Budapest, Hungary**

Multi-Purpose Health Assistant (C++, OOP) *May 2025*
- Developed a health tracking application with meal logging, symptom analysis, and daily health metrics monitoring.
- Implemented health bar algorithm calculating overall wellness score (0-100%) based on sleep, hydration, activity, and nutrition.
- Built with **OOP** principles (4-class modular design, **SOLID** compliance)

The Future of Quantum Algorithms 2055 *Mar 2025*
- Led a research group project exploring how core quantum algorithms (**Shor's, Grover's, QSVMs**, and the **HHL** algorithm) could shape technology by 2055.
- Gained experience in analyzing complex systems, technical writing, and presenting forward-looking technological scenarios.

Song Database Management System *Dec 2024*
- Developed a **C** program; Song **Database Management System** with features to add, list, and search songs by artist, album, year, or genre. Implemented **dynamic memory allocation** and **file handling** for data persistence.

EDUCATION

Budapest University of Technology and Economics (BME) **Budapest, Hungary**

BSc Computer Science and Engineering

Current GPA: 4.0/5 *Graduation Date: Jan 2027*

Stipendium Hungaricum full scholarship recipient, acceptance rate: 7%

ACTIVITIES

Google Developer Student Club - BME **Budapest, Hungary**
Core Member *Oct 2023 - Feb 2024*
- Contributed to organizing 5+ tech events (50+ attendees each), including brainstorming and shaping event topics. Shared ideas with the team, supported logistics, and managed social media to boost outreach and visibility.

National Democratic Institute (NDI) **Pristina, Kosovo**
Trainee *Jul 2024 - Aug 2024*
- Explored AI applications in public policy, focusing on data-driven decision-making and ethical governance frameworks.
- Analyzed case studies of tech integration in democratic systems (e.g., e-voting security, AI for legislative analysis).
- Collaborated with policymakers to draft recommendations for transparent AI adoption in government processes.

TEDxBME **Budapest, Hungary**
Volunteer *Oct 2024 - Nov 2024*
- Supported event logistics to ensure smooth operations and foster an environment for sharing ideas, education, and technology.
- Worked closely with the team to contribute to a meaningful and inspiring event

SKILLS

Technical Skills: OOP, C++, Git, Database Design, SQL, Theory of Algorithms, Communication Networks, Graph and Number Theory, Computer Architectures, Quantum Computing, Web Development, Cloud Computing

Soft Skills: Project Management, Multicultural Teamwork, Critical Thinking, Strong Analytical and Problem-Solving Abilities

Languages: Albanian (Native), English (C2), German (A2), Turkish (A2), Hungarian (A1)

CERTIFICATIONS

- **Full-Stack Web Development Bootcamp -** *Mar 2025 - in progress*
- **AWS Certified Cloud Practitioner -** *May 2025 - in progress*
- **SQL Certification** - *Dec 2024*
- **Google Cloud Artificial Intelligence** - *Jun 2024*
- **TOEFL:** 100 - *Aug 2022*

HONORS & AWARDS

- **Stipendium Hungaricum Scholarship -** *Tempus Public Foundation*, Jul 2023

- **Silver Medalist, Smart Home Automation System Project** - *ASEF 23, Albania, Feb 2023*
- **Bronze Medalist, Physics and Engineering Project** - *International Greenwich Olympiad, London - Jul 2022*
- **Silver Medalist, Short Movie on Solar Energy Solutions -** *ASEF 22, Feb 2022*
- **Certificate of Excellence -** *Hasan Nahi Gymnasium, Jan 2022*
- **Gold Medalist, Youth for Change Competition** - *NGO TOKA, Oct 2022*
- **1st place winner Kosovo's Math Olympiad** - *Feb 2021*