

Davit Gasparyan

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PROFESSIONAL SUMMARY

Innovative and detail-oriented Software Engineer with a strong background in backend development, cybersecurity, artificial intelligence, and desktop application development on Windows using C++ and Qt. Experienced in designing and deploying scalable applications using Python, FastAPI, Flask, and cloud technologies. Proven ability to integrate AI functionalities, manage databases, and optimize system performance. Passionate about learning and applying new technologies to solve complex problems efficiently.

EDUCATION

National Polytechnic University of Armenia (NPUA)

Yerevan

Bachelor's degree in Information Technology

Graduation Date: Jun 2028

Associate's degree in Information Technology

Graduation Date: Jun 2024

WORK EXPERIENCE

ClimateNet (Internship)

Yerevan

Full Stack Developer & IoT Specialist

Mar 2025 - Present

- Working on an IoT-integrated climate monitoring system using Flask and Raspberry Pi.
- Developing web applications with Flask, Gunicorn, and Nginx on AWS EC2.
- Implementing responsive UI with HTML/CSS.

TUMO Labs CyberTech Sprint

Yerevan

Backend Engineer

Jan 2025 - Feb 2025

Developed the backend infrastructure for a cybersecurity learning platform using Python, FastAPI, and Uvicorn.

- Designed and optimized a PostgreSQL database for secure data management.
- Integrated AI-powered functionalities, including an AI assistant and AI image detection using OpenAI ChatGPT, DeepSeek, and Sightengine.
- Managed team workflow and task tracking using Asana.

PROJECT EXPERIENCE

NPUA

Yerevan

Software Engineer

Sep 2023 - May 2024

- Created a working Chess game for my diploma work using C++ with Qt Framework.
- Developed and implemented interactive features for GUI chess game.
- Utilized advanced algorithms to optimize game performance.

Software Engineer

May 2021 - Jul 2021

- Collaborated with a team of software engineers to develop innovative small projects using C++.
- Implemented new coding techniques and algorithms to optimize project performance.
- Analyzed and resolved complex technical issues within small projects.

Backend Developer

May 2023 - Jul 2023

- Developed a MySQL database for a travel agency, allowing for efficient storage and organization of client information.
- Developed a PHP application to streamline task management, connecting it seamlessly with a MySQL database.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, PHP

Web Technologies: FastAPI, Flask, Gunicorn, Nginx, HTML, CSS

Databases: MySQL, PostgreSQL

AI & Machine Learning: ChatGPT, DeepSeek, SIGHTENGINE

DevOps & Cloud: AWS EC2, Nginx, Docker

Tools & Platforms: Git, Git Bash, Asana, Visual Studio, Visual Studio Code, Qt Creator

GNU/Linux/Unix: Bash, Vim, Neovim, Makefile

Languages: Armenian (Native), Russian (Upper Intermediate), English (Upper Intermediate)

COURSES

Armenian Code Academy

Yerevan

Advanced C++ course:

May 2023 - Sep 2023

- Advanced C++
- Memory management
- Compilation
- Process and Threads
- Implemented Smart Pointers
- Implemented STL containers: Array, Vector, List and Forward List, Stack, Queue, Binary Tree, Hash Table

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Coding boot camp:

Nov 2024 - Dec 2025

- Intensive coding boot camp focused on algorithmic problem-solving and system programming.
 - C, Networking, Team work

INTERESTS

- Cybersecurity, AI Development, IoT, Open-Source Contributions
- Fitness, Gym, Music, Chess