



Romain Ducrocq

C/C++ Software Engineer
with 3.5 YoE

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- +371 20 727 828
- Living in Riga, Latvia
- From Paris, France

About Me

I'm a software engineer from France who recently moved to Riga with my Latvian partner. I'm interested in systems and compilers, and looking for a job in C/C++ development.

Profile Links

- [\[romainducrocq\]](#)
- [\[romain-ducrocq-718245229\]](#)

Languages

- French ● ● ● ● ●
- English ● ● ● ● ●

Hard Skills

C++ · C · Python · Bash · Linux
Systems/Tools · Compilers · AI

Soft Skills

Communication · Teamwork
Friendly · Good with people

Work Experience

- 2023 - 2025 **C++ SDK Software Engineer** Permanent
2.5 years *Thales - Digital Identity and Security, Czech Republic*
 - Developing a C++ cross-platform SDK for biometric systems on Rocky/CentOS/Ubuntu Linux, Windows 64 and 32 bits, and Android mobiles, with bindings for Java and C#
 - Writing C/C++ native interfaces for Java and C# user APIs
 - Maintaining and updating large C/C++ legacy codebases**Stack:** C++, C, CMake, JNI, SWIG, Gradle, Jenkins, Mercurial, Git, Linux, Windows, Android (+ Java, C# for testing only)
- 2022 **Python Data Engineer** Contractor
7 months *Škoda Auto, Czech Republic*
 - Automating ETL data pipelines with multiple data sources**Stack:** Python, Numpy, Pandas, Jupyter, Git, Ubuntu
- 2021 **AI/ML Research Intern** Internship
6 months *GRETTIA laboratory Paris-East University, France*
 - Researching the applications of Reinforcement Learning for traffic signal control optimization at road intersections**Stack:** Python, Pytorch, Gym, Latex, Git, Linux Debian

Projects and Publications

- 2023 - now **wheelcc** [\[GitHub\]](#)
A C compiler written from scratch in ISO C17 for x86-64 GNU/Linux and MacOS, with it's own frontend, IR, optimization and backend. The project also builds in C++.
- 2021 - 2023 **DQN-ITSCwPD** [\[GitHub\]](#) [\[Publication\]](#) [\[ArXiv\]](#)
Deep Reinforcement Q-Learning for Intelligent Traffic Signal Control with Partial Detection. Research conducted at Paris-East University during and after my Master's thesis.
- 2022 **NEAT-SuperMario** [\[GitHub\]](#)
A NEAT (neuroevolution of augmenting topologies) algorithm implemented in C++ that evolves neural networks to play and beat Super Mario Bros on a Nintendo NES emulator.

Education

- 2021 **Master's Degree in Computer Science** [\[Degree\]](#)
Paris-East University, France
Major in Intelligent Systems, obtained with highest honors.
- 2021 **Master's Degree in Business Management** [\[Degree\]](#)
Lyon Business School, France
Double-Degree program, obtained with highest honors.
- 2018 **Electrical Engineering Exchange Program** 1 semester
Ajou University Suwon, South Korea

Recommendations

François Cabrol

francois.cabrol@thalesgroup.com

Product Manager and Team Leader, Thales Cyber and Digital

I had the pleasure and luck of managing Romain for 3 years in my R&D software development team, where he consistently demonstrated exceptional skill as a developer. Romain was instrumental in designing and implementing biometric SDKs built on C algorithm libraries—a complex task that demands advanced expertise in C++, C, Java, and a solid understanding of machine learning principles.

What truly sets Romain apart is his responsiveness and customer-oriented mindset. He approaches every challenge with a solution-focused attitude and ensures that the end product meets the highest standards for both functionality and usability. Any team would be lucky to have someone of his caliber.

Pavel Brandejský

pavel.brandejsky@thalesgroup.com

Technical Team Leader, Thales Cyber and Digital

Romain was a key player in my team. Not only that, he was always assigned to time constrained and critical tasks, because he consistently ensured them done. His team spirit and professionalism also helped a lot with onboarding new colleagues on the team.