

Quentin Cartier

SOFTWARE ENGINEER · C++ & PYTHON

Montpellier, France

📞 (+33) 0699957002 | ✉ quentin.cartier.dev@gmail.com | 🌐 maishuji | 📄 quentin-cartier-05344977

Summary

Experienced Software Engineer with 6+ years in software development, including 3+ years specializing in C++ and Python for backend systems. Skilled in software architecture, performance optimization, and writing clean, maintainable code. Passionate about applying best practices and driving technical improvements. Currently seeking opportunities in Montpellier or full-remote positions.

Experience

Yooz

Aimargues, France

RESEARCH ENGINEER

Apr. 2025 – Present

- Recently joined; actively contributing to research and development projects focused on automation and optimization.
- Collaborating with cross-functional teams to explore innovative solutions and enhance existing processes.

Amadeus (via Astek)

(Remote) Antibes, France

SOFTWARE ENGINEER

Feb. 2022 - Feb. 2025

- Contributed to the development of the Search Orchestrator system, aggregating flight offers from multiple airlines.
- Designed and implemented new features, ensuring software stability through comprehensive tests and proactive maintenance.
- Improved project architecture and reduced technical debt by proposing and implementing efficient solutions.
- Advocated for best development practices via knowledge-sharing sessions.
- Contributed to DevOps efforts, assisting in release and deployment processes.

Mentor Graphics (Siemens EDA)

Montbonnot-Saint-Martin, France

SOFTWARE ENGINEER TRAINEE

Apr. 2021 - Sep. 2021

- Conducted performance analysis and optimization at the API level to improve data transmission efficiency.
- Identified and addressed system bottlenecks, enhancing overall performance by up to 20%.
- Designed and implemented shared memory communication (POSIX) to optimize interprocess data exchanges.

Reynolds&Reynolds

Grenoble, France

FULL-STACK DEVELOPER

Sep. 2018 - Sep. 2020

- Developed and maintained a web-based software suite for automotive dealerships.
- Designed and implemented new features, improving system functionality.
- Ensured system stability through maintenance and incident resolution.
- Developed internal tools to streamline and optimize the development process.

Education

Université Grenoble Alpes(UGA)

Grenoble, France

MASTER'S IN COMPUTER SCIENCE - SOFTWARE ENGINEERING

Sep. 2020 - Aug. 2021

- Focused on Model Engineering, Software Testing, and Software Architecture.
- Hands-on experience with IoT, Big Data, Java, Embedded Systems, and frameworks like Angular, Spring.

National Cheng Kung University(NCKU)

Tainan, Taiwan

B.S. IN COMPUTER SCIENCE AND INFORMATION ENGINEERING

Sep. 2013 - Aug. 2017

- Built a solid foundation in Algorithms, Data Structures, and Computer Architecture.
- Gained hands-on experience with Android, Qt (C++), and Embedded Systems.

Aix-Marseille Université (AMU)

Aix-en-Provence, France

BACHELOR'S IN CHINESE LANGUAGE, LITERATURE, AND CIVILIZATION

Sep. 2010 – Aug. 2013

- Achieved fluency in Chinese, enhancing communication and collaboration in multilingual environments.
- Final year completed as an exchange student in Taiwan

Skills

Programming	C++, Python, Java, SQL, Rust, JavaScript, TypeScript, HTML, CSS, R
DevOps	Docker, Kubernetes, Ansible, Jenkins, GitHub Actions, Grafana
Development Tools and Frameworks	CMake, Makefile, Linux, Django, Qt, Valgrind, Emacs, Vscod
Software	Object-Oriented Programming, SOLID, Design Patterns, UML
Project Management	Agile, Scrum, SAFe, Jira, Confluence
Languages	French, English, Chinese, Russian

Soft Skills Autonomy & Problem-Solving
 Attention to Detail
 Curiosity & Continuous Learning
 Proactive Mindset
 Adaptability

Certificates

2024 **Design Patterns**, University of Alberta
2024 **Machine Learning Specialization**, DeepLearning.AI
2024 **Mathematics for Machine Learning and Data Science Specialization**, DeepLearning.AI
2024 **Arm Cortex-M Architecture and Software Development Specialization**, Arm
2023 **IBM Applied DevOps Engineering Specialization**, IBM
2023 **Google IT Automation with Python Specialization**, Google
2023 **Design Patterns in Modern C++**, Dmitri Nesteruk (Udemy)
2023 **Docker and Kubernetes: The Complete Guide**, Stephen Grider (Udemy)
2022 **Build Your First IoT Application With Arm**, ARM - edX
2022 **Embedded Systems Essentials with Arm: Get Practical with Hardware**, ARM - edX
2019 **CPA - C++ Certified Associate Programmer**, C++ Institute

Honors

2013–2017 **Full Scholarship Recipient**, Taiwan Ministry of Education – Bachelor's Degree Program

Tainan, Taiwan