Quentin **Cartier**

SOFTWARE ENGINEER · C++ & PYTHON

Montpellier, France

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Summary

Experienced Software Engineer specializing in C++ and Python development with a strong background in software architecture, optimization, and backend development. Passionate about writing clean, maintainable code, following best practices, and contributing to technical improvements. Looking for opportunities in Montpellier or full remote.

Experience

Amadeus (via Astek)   *Remote(Antibes), France*

SOFTWARE ENGINEER   *Mar. 2016 - Exp. Jun. 2017*

- 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   *Feb. 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. 2013 - Aug. 2017*

- 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*

- Strong foundation in Algorithms, Data Structures, and Computer Architecture.
- Developed applications with Android, Qt (C++), and Embedded Systems.

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, Vscode
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