WALID CHEBBI

C++ software engineer

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Professional summary

Results-driven C++ Software Engineer with Python and Linux experience, recognized for enhancing software reliability and performance. Expertise in embedded systems, real-time development, and modern development practices, with a strong commitment to collaborative problem-solving. Ready to drive impactful contributions to innovative software and payment solutions projects.

Skills

Strong technical expertise

- **Embedded systems development** (High-performance, memory-efficient, and modular C++ applications)
- **Tools & Platforms:** Git/GitHub, SVN, Wireshark, gprof, Valgrind, perf, UML, SQLite
- **Payment Systems:** EMV standard, financial transaction systems, proxy servers
- **Multithreading and concurrency :** std::thread, mutexes, condition variables, atomics, thread pools
- Skilled in **software development** using C, C++14/17, and Python 3.x
- **Protocols & Networking:** TCP/IP, UDP, WebSocket, JSON, Ethernet
- **Development Methodologies:** Agile Scrum, version control, code review
- **Linux and Windows systems** : Shell scripting, system calls

Soft Skills

Experience

C++ SOFTWARE ENGINEER, 04/2024 - Current
Amadeus, Nice

- Development of **high-throughput payment microservices** in **C++17** running on **Linux RedHat**.
- Work on **backend payment and authorization services**, handling concurrent transaction flows.
- Experience with **multithreaded server-side components** to ensure scalability and availability.
- Development of **Python tools** to isolate test environments and reduce load on customer systems.
- Participated in **CI/CD pipelines** using **Jenkins**, and worked with **Kafka** for backend messaging and event handling.
- Contribution to **algorithmic logic for transaction processing**, validation, and routing.
- Collaborated with an international team on code integration, reviews, and bug fixes in an **Agile Scrum** environment.

C/C++ DEVELOPER, 04/2023 - 02/2024
Cogelec, Nantes

- Embedded development in **C/C++ (C++14)** for **ARM Cortex / STM32** platforms.
- Development of **real-time embedded algorithms** for **NFC, Bluetooth** communication.
- Experience with **RTOS task management**, synchronization, and timing constraints.

- Participated in the development of a **Qt-based configuration tool** for communicating with readers over **UART** and with the server via **TCP/IP**.
- Debugged and resolved software issues, enhancing system stability.
- Worked with **Git/GitHub** for version control and code reviews.
- Performance and memory analysis using **Valgrind** and **gprof**.

C++ SOFTWARE ENGINEER, 02/2021 - 12/2022
Worldline, Sfax

- Development in **C/C++14** of **iConnect-WS**, implementing **WebSocket-based communication**.
- **Linux**-based **(Debian/ Ubuntu)** development for **real-time payment transaction systems**.
- Design of **JSON-based messaging protocols** and transaction routing logic.
- Development of a **Python proxy server** handling concurrent payment requests.
- Exposure to **network concurrency and multithreaded I/O** in payment systems.
- **Worked in an international team**, collaborating across multiple locations and time zones to deliver **secure and efficient payment transaction systems**.
- **Technologies & Tools:** C/C++, Python, JSON, SQLite, TCP/IP, UML, Wireshark, SVN, JIRA, Bamboo, Stash-FishEye, Scrum, EMV standard, Financial Systems

Education

Master Of Science: Computer science and architecture, OOP and multithreading, Electronics, Embedded systems
National Engineering School Of Sousse - Sousse, Tunisia, 01/2021

Languages

English
Advanced (C1)

French
Upper intermediate (B2)

Arabic
Bilingual or Proficient (C2)

Hobbies & Interests

- Video games
- Chess
- Football and Padel
- Reading technology and IT articles

Certifications

NDG Linux Essentials (0220 WR), 01/2024

SAFe® 6 Practitioner, 05/2024

Advanced Algorithmic Thinking with Python, 01/2025

C++ Development: Advanced Concepts, Lambda Expressions, and Best Practices, 02/2025