Johan Manuel

johan29.manuel@gmail.com | +420 777 436 338

I'm a Software Engineer living in Czechia, passionate about low-level software development, looking for a new challenge after a gap year in Japan.

SKILLS

PROGRAMMING
C • C++ • Python
x86 Asm • Kotlin • C#
Java • Bash • Matlab

SOFTWARE
Linux • Bash/CLI • Git
Gdb • Godot Engine • Unity
Reverse engineering • Arduino
Solidworks • OnShape • LaTeX

LANGUAGES
English: C1 level, TOEIC: 990/990
Czech: B1+ level

MISC

COURSES
Systems Programming & Networks
Embedded Systems
Web Technologies
Internet of Things
Smart Systems
Android Development
Optimization

HOBBIES
Long distance hiking
Cinema
OS Development
Chess

LINKS
Github:// **29jm**
LinkedIn:// **Johan Manuel**

WORK EXPERIENCE

JAPAN CAREER BREAK | Contract and Freelance work
September 2023 - August 2024 | Remote/Tokyo
- BoostDraft, Tokyo-based legal startup
  - Worked on a law-oriented IDE for attorneys and paralegals.
  - Feature development and bug fixes in C# and WPF to reach a project milestone.
- DataAnnotation, related to SurgeAI: improving Gemini, Claude models' programming abilities on C and C++ aspects, data analysis in Python.

HONEYWELL | Software Engineer II
November 2021 - July 2023 | Brno, Czech Republic
- Finalized development of two DO-178C certified embedded pressure-sensing units, CPxD-5, and ADM-3:
  - Feature design and development in C,
  - Testing of low and system-level requirements,
- Designed a GPS-aided software navigation C++ library.

SOPRA STERIA | Software Engineering Intern
April 2021 - September 2021 | Lille, France
- Design and development of a Continuous Integration dashboard for the applications developed in Sopra Steria's transport department, in Kotlin, using *Test Driven Development* methods,
- Helped develop and maintain a backend data source application in Java, using the Hibernate and Spring Data frameworks.

SNCF - FRENCH RAILWAYS | Final year project
September 2020 - March 2021 | Centrale Lille, France
- Developed predictive maintenance solutions to detect faults in train pantographs, using OpenCV and machine learning models.

HOBBY OS DEVELOPMENT | Open source work
September 2019 - Present | Centrale Lille, France
- Developed in C and assembly, from scratch, for the x86 architecture,
- Was my choice of personal challenge during my second year at Centrale.

EDUCATION

ENGINEERING SCHOOL | Centrale Lille
September 2018 - September 2021, Lille, France
Software development oriented curriculum in one of France's top 10 engineering school. Majored in embedded systems and control theory.

BSC IN MATHEMATICS | University of Lille
September 2018 - June 2019, Lille, France
Opted to get this degree in parallel of my engineering studies.

ADVANCED UNDERGRADUATE STUDIES | Sainte-Anne
2016 - 2018, Brest, France
Intensive training in mathematics, physics and engineering sciences.