

# Cédric Membrez

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Software Engineer specialized in AR/VR for the Industry 4.0 and Digital Twin. Experience on the entire pipeline from CAD to AR/VR applications. Experience in UI, 2D and 3D graphics. Composed, curious, visionary.

## EXPERIENCE

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- 07.2023 - Present     **XR Software Engineer** *SKAN, Switzerland*
- Refactoring and optimising the pipeline for 3D-file import
  - Implementing features for desktop and VR/XR application software
  - Modifying 3D models and designing UI elements
  - **Skills:** Pixyz/Python, Unity/C#, UI/UX, Adobe Photoshop / Illustrator, Blender
- 02.2018 - 04.2020     **Portfolio Manager** *MFM Mirante Fund Management, Switzerland*
- Managed two global convertible bonds funds & presented the funds across Europe
  - Defined strategy & decided for optimal allocation & investments for given regions
  - Produced & organized calls for tenders & requests of clients
  - **Skills:** result-driven, proactive, take responsibility, interpersonal skills, resilient
- 02.2014 - 01.2018     **Quantitative Analyst** *MFM Mirante Fund Management, Switzerland*
- Produced risk reports & performance attribution analyzes (VBA, R/ggplot, L<sup>A</sup>T<sub>E</sub>X)
  - Analyzed investment opportunities (Bloomberg, VBA, R, Java, SQL)
  - Developed risk management tools to improve department efficiency (VBA)
  - **Skills:** attention to detail, fast learner, entrepreneurial, resilient, adaptive, reliability

## PROJECTS

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- 08.2022 - 06.2023     **Augmented Reality** *MSc Thesis, University of Fribourg*
- Researched key features & accessible design to gamify low vision rehabilitation
  - Interviewed specialists from the Swiss federation for people with visual impairments
  - Implemented a serious game escape room using Unity/C# on Microsoft Hololens 2
  - **Skills:** Unity/C#, MRTK; UI/UX, user-centered, empathy, research, analysis
- 10.2022 - 01.2023     **Embedded Software - Robotic** *Team project (Git repo) - University of Fribourg*
- Programmed on Espressif, Arduino, Raspberry microcontrollers in C/C++, Python
  - Communicated between boards using MQTT, WebSocket, and UART protocols
  - Integrated pre-build machine learning models for face recognition
  - **Skills:** C/C++, Python (OpenCV); problem solving, solution oriented, prototyping
- 02.2021 - 09.2021     **Virtual Reality** *University of Fribourg*
- Developed an adventure video game with Unity/C# on Oculus Quest 2
  - Presented my project at the annual university open-days
  - **Skills:** Unity/C#, Blender; autonomous, creativity, design thinking

## EDUCATION

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- 09.2020 - 06.2023     **MSc Computer Science** *University of Fribourg, Switzerland*
- Pre-MSc: data structures, databases, algorithms, software engineering, operating systems, concurrent & distributed systems
  - Specialized in advanced information processing: user centered design, affective computing, game development, deep learning, big data, cloud computing
- 11.2021     **CFA - passed all three exams** *CFA Institute*
- 09.2011 - 01.2014     **MSc Quantitative Finance** *WU Vienna University of Economics & Business, Austria*
- 09.2007 - 09.2011     **BSc Economics** *HEC Lausanne, Switzerland*
- Final year exchange at Aalto University School of Economics, Helsinki, Finland

## SKILLS

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- Languages     French: native | English: fluent/C1 | German: intermediate/B1
- IT     C#, C/C++, Java, Python, SQL | Unity, Unreal | Blender, Pixyz, Photoshop, Illustrator

## ACTIVITIES

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- 02.2016 - Present     **Piano** *Classical music*
- 09.2012 - 09.2013     **WU Qfin Club** *Cofounder, Austria*
- 09.2009 - 09.2010     **HEC Espace Entreprise Association** *Head of Internships Division, Switzerland*
- 08.2008 - 11.2014     **Marathons** *Athens 2014, Vienna 2013, London 2010 & San Francisco 2008*