

# Daniele Filaretti

Software Engineer

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📄 [dfilaretti.github.io](https://dfilaretti.github.io)

## Work Experience

- Jun. 2020 to present **C++ Developer (contract)**, *Loopmasters/Beatport*, (UK/Remote).  
Contributed to the development of the Loopcloud desktop app, introducing new major features, an extensive UI rework, bug fixes and workflow improvements.
- Aug. 2021 **C++ Developer (contract)**, *K-Devices*, (France/Remote).  
Jun 2022 Developed every aspect of the "TATAT" MIDI plugin based on the specification from the client, including vectorised UI, low-level MIDI engine, MIDI export, installers etc.
- Jul. 2019 to Jun. 2020 **Clojure(script) developer (full-stack)**, *Yapster*, (London, UK).  
Helped developing Yapster - a messaging app for the workplace; contributing new features across both frontend and backend as well as bug-fixes.
- Mar. 2018 to Feb 2019 **R&D Engineer / Haskell developer**, *Runtime Verification*, (USA/Remote).  
Contributed to several high-profile open-source projects in the blockchain, cryptocurrency and formal methods spaces (main tools: C++, Haskell, the K framework).
- Sep. 2017 to Mar 2018 **C#/Unity3D developer**, *Synergation Limited*, (London, UK).  
Lead the development of DIMMAND, a cross-platform digital solution for detecting literacy difficulties & strengths in children.
- Jan. 2016 to Aug 2017 **C#/.NET embedded Software Engineer**, *Solid State Logic*, (Oxford, UK).  
Helped develop and maintain the software powering Solid State Logic's high-end digital consoles in both the Broadcast (System T) and Live (L200, L350 etc.) product families.
- Oct. 2011 to Jul. 2015 **PhD Researcher**, *EPSRC (Grant EP/1004246/1)*, *Imperial College London (UK)*.  
Developed formal specification of the PHP language and a prototype PHP bug finding tool.
- Apr. 2009 to Dec. 2009 **Sound Technician, Sound Designer (internship)**, *AGON*, *Milan (Italy)*.  
Helped sampling sound from 1500 streets and turning it into ambient music (*Audioscan Milan*).
- Oct. 2008 to Feb. 2009 **Software Engineer (internship)**, *University of Milan (Italy)*.  
Added syntax highlighting to the open source text editor *ne* (<http://ne.di.unimi.it/>).

## Continuing Education & Certificates

- Jan 2020 **Advanced Audio Plugin Development**, *Output (on Kadenze)*.  
Jan 2017 **Digital Signal Processing**, *École Polytechnique Fédérale de Lausanne (on Coursera)*.

## Education

- 2011 - 2015 **PhD (Computing)**, *Imperial College London*, *Funded by EPSRC scholarship*.  
2009 - 2011 **MSc (Information Technology)**, *University of Milan*, 110/110 (with honors).  
2006 - 2009 **BSc (Information Technology)**, *University of Milan*, 105/110.