# ZERBIB Timothée

computer science student



tzerbib.github.io

(+33) 646 544 844

timothee.zerbib@ip-paris.fr

tzerbib

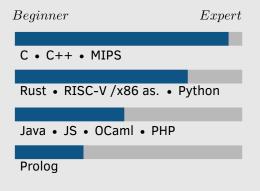
tzerbib

# Skills

### Languages

**French** (Mothertongue) English (Fluent) German (Fair)

### Programming





### Programming

Git GNU Debugger (GDB) **GNU Make** 

## Text

**P**T<sub>F</sub>X Markdown Vim

#### Game engines Godot

Unity

#### Video

Adobe After Effects Adobe Premiere Pro Autodesk Mava Blender

# Education

- 2021 2023 Master in Computer Science Institut Polytechnique de Paris, France "Master in Parallel and Distributed Systems", including a research project with the Parallel and Distributed team of Telecom SudParis.
- 2016 2020 Bachelor in Computer Sc. & Engineering University of Strasbourg, France Academic excellence curriculum (CMI) with additional courses in Operating Systems and Networks.
- 2014 2015 Preparatory Classes for the Grandes Ecoles Kleber High School, France First year of Preparatory Classes for the Grandes Ecoles in Mathematics. Physics and Engineering Sciences.

## Work Experience

- May Dec. Design and implementation of a STM protocol SkyLab, UC Berkeley, USA 2023 Design and implementation of a leaderless ordering service in the byzantine model, respecting a newly defined notion of ordering fairness.
- May Aug. Implementation of a multikernel PDS team, Telecom SudParis, France Continuation of my Master's research project consisting in trans-2022 forming the xv6 kernel into a multikernel. https://github.com/tzerbib/xv6-riscv/tree/multikernel
- June 2021 Improvement of SGX performance Neuchâtel University, Switzerland Work on improving performance of Intel SGX "switchless" calls.
- June Aug. Implementation of an emulator University of Strasbourg, France 2020 Implementation of a simplified computer emulator to serve as a support for students attending a graduate class about operating systems at the University of Strasbourg. https://gitlab.com/pdagog/z33
- June July **Translation of the explanation booklet of xv6** ICube Laboratory, France 2019 Study of the source code of xv6, a kernel created by MIT for pedagogic purposes, in order to do a translation of its explanation booklet. Commentaries were added to the French version to clarify some concepts, and improvements were sent to MIT. https://gitlab.com/pdagog/xv6-livret
- **Camp counselor** July - Aug. Community center of Elsau, France 2015 Activity organizer in a summer camp for underpriviledged children.

53rd IEEE/IFIP DSN

## **Publications**

2023

SGX Switchless Calls Made Configless P. Yuhala, M. Paper, T. Zerbib, P. Felber, V. Schiavoni, A. Tchana.

## Activities and Interests

- Pianist in a jazz band after 15 years in music school.
- Singer in the vocal ensemble of École Polytechnique.
- · Graduated artificer, member of ArtifiX, École Polytechnique's students fireworks association.
- Judo (twice honored by the City of Schiltigheim as a "deserving athlete" in 2007 and 2009).
- Math tutor for students preparing the high school diploma.