


# Guilmour Rossi


Senior Software Engineer, Tutor Educator and Free Software Maintainer


Hi! I'm a Senior Software Engineer and Educator at the Recife Center for Advanced Studies and Systems (CESAR), a not-for-profit inovative center in Brazil.

My research and efforts interests are in free software, cyberculture, data privacy, cinema, software engineering and social change.


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 CV in PDF

 Google Scholar

 Currículo Lattes

 LinkedIn

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## Professional Experience

### Senior Software Engineer

Present —  
Aug 2020

**Recife Center for Advanced Studies and Systems (CESAR), Brasil**

Genebra Project: NDA work, enhancing a complex web app with 300+ user stories. Frontend: JavaScript (Ember.js); Backend: PHP (Symfony, MySQL, OOP).

Jul 2020 —  
Dec 2019

### FullStack Software Developer

**Totalerp, Curitiba, Brasil**

Interdisciplinarily bridged gaps between dev and marketing teams. Worked on website, help desk, checkout system, data collection, lead analysis, and product integrations for 6+ months.

Jan 2020 —  
Dec 2018

### Technical Leader and Researcher

**Libreflix Project, São Paulo, Brasil**

Worked as DRI for Libreflix, a peer-to-peer video platform supporting Brazilian indie films. Nowa- days the project has 60K+ registered users, delivering 11TB+ video/month. Tech: Node, MongoDB, recommender systems, P2P streaming, video processing.

Dec 2019 —  
Feb 2014

### Head of Technology and Co-owner

**Guilst Consulting, Brasil**

Co-funded a consultancy agency addressing IT, web development, DevOps, and data analysis, working with 50+ clients in 5 years.

Jul 2013 —  
Feb 2013

### IT Internship

**Prefeitura de Pinhais (City Hall), Pinhais, Brasil**

Mentor: Luis Fernando Caroli

Helped in the maintenance of the local network and provided general computer and software support at the city's Cultural Center.

Dec 2012 —  
Feb 2011

### Planning and Production Control Apprentice

**Flexiv Móveis de Escritório, Pinhais, Brasil**

Mentor: Rafael Roks

First registered job role involved learning and assisting in resource allocation for employee activities, materials, and production capacity at the Production Planning & Control office.

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# Teaching

- Present - Jan 2021 **Tutor Educator**  
*Recife Center for Advanced Studies and Systems (CESAR School)*
- Present - 2022.1 **PROJ3: Project 3**  
Software engineering and design thinking project-based undergraduate course with 70+ students, shared by Computer Science and Design programs. Emphasizes object-oriented programming and project management. With Tatalina Oliveira.
- 2021.2 **COMP1: Introduction to Computing**  
Introductory concepts in programming, databases, networks, and the history of computers. Emphasizes critical thinking and hands-on coding lessons. With Henrique Foresti.
- 2021.2 - 2021.1 **PROJ2: Project 2**  
Software engineering and design thinking project-based undergraduate course with 100+ students, shared by Computer Science and Design programs. Emphasizes web development and Python. With Nilson Soaraes and Guilherme Pereira.
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# Research Experience

- Sep 2020 – Sep 2019 **Federal University of Technology - Paraná (UTFPR), Curitiba, Brasil**  
*Undergraduate Research Assistant, Informatics Department*  
Advisor: Luiz Celso Gomes-Jr  
Member of the Data Science for a Cause project, exploring data science, information retrieval and data visualization topics to help other interdisciplinary studies with impact on the social good.
- Aug 2019 – Feb 2019 **Federal University of ABC (UFABC), Brasil**  
*Free Software Developer, Laboratory of Free Technologies (LabLivre)*  
Researched and implemented features related to free streaming, exploring concepts of peer-to-peer video distribution, community networks and digital libraries.
- Dec 2018 – Apr 2018 **Federal University of Technology - Paraná (UTFPR), Curitiba, Brasil**  
*Undergraduate Research Assistant, Secure Cloud Project*  
Advisor: Keiko Fonseca, Luiz Gomes-Jr  
Explored concepts of data science and security information to implement privacy-preserving recommender systems using trusted execution environments.
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# Education

- 2023 - 2024 **B.S. in Information Systems**  
2018 - 2019 Federal University of Technology - Paraná (UTFPR), Curitiba, Brasil
- 2021 - 2023 **A.S. in Systems Analysis and Development**  
Uninter - International University Center, Curitiba, Brasil  
Associate degree with full-tuition scholarship granted by the institution (2145h)
- 2014 - 2017 **B.S. in Computer Engineering**  
(not concluded) Federal University of Technology - Paraná (UTFPR), Curitiba, Brasil
- 2011 - 2012 **Technical/Professional Course in Administration and Industrial Production**  
National Service of Industrial Training (SENAI), Pinhais, Brasil
- Dec 2012 **Secondary school**  
Professor Paulo Freire State School, Pinhais, Brasil
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## Complementary Education

- Dec 2018 **COOPsx - Economic Democracy: The Cooperative Alternative (18h)**  
Online learning course of University of Edinburgh
- Jul 2017 **University extension in Introduction to Astronomy and Astrophysics (30h)**  
Institute of Astronomy, Geophysics and Atmospheric Sciences (IAG) at University of Sao Paulo (USP), São Paulo, Brasil
- May 2016 **ANU-ASTRO4x: Cosmology (30h)**  
Online learning course of Australian National University
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## Publications

### **Libreflix: A Peer-to-Peer On-demand Video Platform for Free Streaming**

Guilmour Rossi, Luiz Gomes-Jr.

*XXV Simpósio Brasileiro de Sistemas Multimídia e Web, 2019, Rio de Janeiro*

 PDF  Slides  Visit  BibTeX  ABNT

### **Free Streaming: Thinking on a Digital Distribution of the Commons in the Streaming Era**

Guilmour Rossi

*I Congresso Internacional sobre o Comum e os Commons, 2019, Caxias do Sul*

(In press) 🏆 **Best Paper of the Section**

### **Privacy-preserving Recommendations for Online Social Networks Using Trusted Execution Environments**

Guilmour Rossi, Luiz Gomes-Jr., Keiko Fonseca, Marcelo Rosa

*XVIII Simpósio Brasileiro em Segurança da Informação e de Sistemas Computacionais, 2018, Natal*

 PDF  Slides  Blog  BibTeX  ABNT

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## Honors and Awards

- Jun 2019 **Best Paper of the Section (Commons of the Knowledge) at the I International Congress on the Common and the Commons**  
For the paper "Free Streaming: Thinking on a Digital Distribution of the Commons in the Streaming Era"
- Aug 2018 **LabLivre Award for Cultural Free Software by Federal University of ABC and Research Development Foundation**  
1st Place Winner for the work and development related to the Libreflix free software project
- 2007 - 2012 **Secondary School and more**  
Received over five honorable mentions in secondary school, including recognition for achieving the highest grade in the class, progress in local math Olympiad, and being recognized as an 'example of effort and dedication classmate'.
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## Grants and Funding

- Jul 2021 **Full-Tuition Scholarship**  
Uninter - International University Center  
Granted approx. R\$ 14.341.04
- Aug 2018 **LabLivre Development Grant for Cultural Free Software**  
Federal University of ABC and Research Development Foundation  
Funded R\$ 54.592,96 (Approx. \$ 14.500)

## Conference Travel Grants

- Oct 2019 **Brazilian Symposium on Multimedia and the Web**  
Rio de Janeiro, RJ, Brasil  
Fundação Araucária + Special Committee on Multimedia Systems and the Web (CE-WebMedia)  
Granted R\$ 1.000,00
- Jul 2019 **Culture and Technology in the Age of Interconnection (Seminar)**  
São Bernardo do Campo, SP, Brasil  
Research Development Foundation (Fundep)  
Granted R\$ 1.000,00
- Oct 2018 **Brazilian Symposium on Information and Computational Systems Security**  
Natal, RN, Brasil  
National Council for Scientific and Technological Development (CNPq)  
Granted R\$ 2.200,00
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## Talks

- Jun 2019 Free Streaming: Thinking on a Digital Distribution of the Commons in the Streaming Era  
I International Congress on the Common and the Commons, Caxias do Sul, Brasil
- Oct 2018 Privacy-preserving Recommendations for Social Networks Using Trusted Execution Environments  
18th Brazilian Symposium on Information and Computational Systems Security, Natal, Brasil
- Oct 2018 Streaming Gratuito de Filmes Livres Mudam a Sociedade para Melhor  
Dev Heart Beer Meetup, Natal, Brasil
- Jul 2018 18th International Free Software Forum (FISL), Porto Alegre, Brasil
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## Selected Press

- Ago 2023 "Conheça o Libreflix, plataforma de streaming gratuita", Olhar Digital
- Jul 2018 "Cinema nacional independente enxerga no streaming um novo caminho", O Estado de S. Paulo
- May 2018 "Brazilian student creates "local Netflix" – an open and collaborative streaming platform", Be Brasil
- Apr 2018 "Na faixa e dentro da lei, Libreflix oferece bom catálogo de filmes online", Vice
- Apr 2018 "Libreflix é a nova plataforma de streaming totalmente gratuita (e legal)", Magg
- May 2012 "Tecnologia transforma alunos em agentes do próprio aprendizado", Gazeta do Povo
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## Technology Skills

Subjects, languages and tools I have experience and feel comfortable to explore deep issues related

**OS:** GNU/Linux, Windows, Unix Command Line, macOS

**Programming:** Node.js, Python, C, JavaScript, PHP, Java, Shell Script

**Web and Writing:** HTML, CSS, LaTeX, Ember.js, Markdown, Flask, Jinja, WordPress

**DevOps:** GNU/Linux Server Administration, Nginx, Apache, Docker, AWS, Git

**Databases:** MongoDB, SQL

**Data:** Recommender Systems, Crawling, Matplotlib, Pandas, Jupyter, ElasticSearch

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## Languages

**Portuguese** Native proficiency

**English** Advanced level

**Spanish** Upper-intermediate level

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## Service

### Organizer

FLISoL - Latin American Free Software Installation Festival. 2023

### Project Committee

Animatiba - Animation International Festival of Curitiba. 2020, 2021

Cinefront - International Amazon Border Film Festival. 2021, 2024

### Institutional

2016 - 2017 UTFPR Academic Directory of Information Systems and Computer Engineering, Director of Communication

### Member

Since 2018 Brazilian Computer Society (SBC)

Since 2019 Data Science For a Cause Project

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## References

**Dr. Luiz Celso Gomes-Jr**, Assistant Professor

Informatics Department (DAINF)

Federal University of Technology - Paraná (UTFPR)

[dainf.ct.utfpr.edu.br/~gomesjr/](http://dainf.ct.utfpr.edu.br/~gomesjr/)

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## Contact

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An updated version of this document can be found at [guilmour.org/cv](http://guilmour.org/cv)