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🇫🇷 | French

Martin Tourneboeuf

SOFTWARE ENGINEER



EDUCATION

2011 -- 2013 **Astronomy (Master)**

🇨🇱 PUC, Santiago, Chile
Observational Cosmology

2008 -- 2011 **Engineering**

🇫🇷 Polytechnique, Paris, France
Mathematics, Physics

2006 -- 2008 **Mathematics**

🇫🇷 Lycée Victor Grignard, Cherbourg, France
Mathematics, Physics: preparatory years for national examination

2003 -- 2005 **High school diploma**

🇫🇷 Lycée Victor Grignard, Cherbourg, France
Natural science

LANGUAGE

🇫🇷 French Mother tongue
🇪🇸 Spanish Bilingual
🇬🇧 English Fluent

PROGRAMMING

Interpreted:

🐚 BaSh, 📊 SQL, 🐍 JavaScript, 🐘 Python, 🐪 Perl, 🌐 Iraf

Compiled:

☕ Java, 🦀 Rust, 🟡 C++, 🍷 Asm (x86)

Markup:

📄 Markdown, 🐘 L^AT_EX, 📄 Html

Tool:

🦊 Firefox, 🍌 Vim, 🍷 Git, 🐳 Docker, 🛠️ Ida, 🐛 Windbg, 🌞 Ds9, 📶 Wireshark, 🏠 Casa

WORKING EXPERIENCE

2023 -- present

Software Pentester

🇨🇱 Dreamlab Technologies, Santiago, Chile

Pentesting: Identification of security breaches (C, Asm, Shell)

- Leadership in the development of tools to automate security audits (Bash, C)
- Preparation of cyber security workshops (Latex, C)

2019 -- 2023

Software Tester

🇨🇱 Atacama Large Millimeter Array (ALMA), Santiago, Chile

Testing: integration and validation of ALMA software monthly releases (Cpp, Java, Bash)

- Leadership in the development of an automated integration and testing framework (Java, Bash)
- Standardisation of the testing steps in the ALMA software development pipeline (Txt)
- Collaboration with other teams during on major upgrades of the database, operating system and hardware-in-the-loop (Java, Bash)

2015 -- 2019

Cyber Security Analyst

🇫🇷 Direction Générale de l'Armement (DGA), Rennes, France

Reverse engineering: analysis of malwares and vulnerabilities for Windows security (Cpp, Asm)

- Management of the development of YaDiff a reverse analysis function namer (Cpp)
- Development of multiple vulnerability proof of concepts (Cpp, Asm)
- Conduction of training sessions on reverse engineering for new team members (Cpp, Asm)

2013

Astronomer

🇨🇱 European Southern Observatory (ESO), Santiago, Chile

Adaptative optics: development of a GUI software to measure image quality (Python)

2006 -- 2014

Other professional experiences

🇫🇷 France, India, Chile

- Astronomer: statistical study of the star formation history, internship in Hawaii (6 month)
- Developer: video games in Java with LibGdx (6 months)
- Waiter, Barman: restaurant (8 months)
- Air conditioning technician: internship in India (1 month)
- Commando marine: lieutenant (8 months)
- Summer camp leader (5 × 1 month)
- Oyster farmer (5 × 2 weeks)