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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

WORKING EXPERIENCE

2019 -- 2023

Software Tester

🇨🇱 Atacama Large Millimeter Array (ALMA), Santiago, Chile
Testing: integration and validation of ALMA software monthly releases (Cpp, Java, Bash)

- Development of database query programs and microservices components (Java)
- Integration and testing of new software and development of bug fixes (Cpp, Java, Python)
- Development of an automated integration and testing framework (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)

- Development of YaDiff a reverse analysis function namer (Cpp)
- Development of multiple vulnerability proof of concepts (Cpp, Asm)
- Reverse engineering of several security products, using a static based methodology with some opportunistic dynamic support from debuggers and fuzzers (Cpp, Asm).

2013

Astronomer

🇨🇱 European Southern Observatory (ESO), Santiago, Chile
Adaptative optics: development of a GUI software to measure image quality (Python)

2012

Astronomer (internship)

🇨🇫 Canada France Hawaii Telescope (CFHT), Waimea, USA
Observational cosmology: statistical study of the star formation history (Supermongo)

2006 -- 2014

Other professional experiences

🇫🇷 France, India, Chile

- Developer: video games en Java con 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)

LANGUAGE

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

PROGRAMMING

Interpreted: BaSh, SQL, JavaScript, Python, Perl, IraF

Compiled: Java, Rust, C++, Asm (x86)

Markup: Markdown, LaTeX, Html

Tool: Firefox, Vim, Git, Docker, Casa, Ds9, Ida, Windbg