

# Tom Durand-Gasselín

Cybersecurity engineer / DevSecOps engineer / cloud engineer

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French and Canadian Citizen

🌐 LinkedIn Profile

Open to opportunities in Los Angeles, CA

🐙 GitHub Profile

I am seeking opportunities in Los Angeles area. Leveraging my expertise in DevSecOps and systems programming. As a Cybersecurity Engineer, I specialize in offensive and defensive security, with a deep understanding of cloud infrastructures (AWS, OVH, GCP) and secure automation. My work involves building and hardening resilient systems, integrating Shift-Left Security principles into CI/CD/COS pipelines, and conducting in-depth vulnerability assessments, exploit development, and secure code reviews across hybrid and multi-cloud environments.

## TECHNICAL SKILLS AND INTERESTS

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**Spoken Languages :** French (native), English (fluent)

**Programming Languages:** C/C++, Python, Rust, Go, terraform, React

**Developer Tools:** Docker, Kubernetes, cloud infrastructure

**Security tools:** Ghidra, Sandboxing, Metasploit, pwntools, Wireshark, Scapy

**Soft Skills:** Motivated, Creative, Organized, Determined, Self-learning, Curious, Team Working

**Areas of Interest:** Entrepreneurship, Cybersecurity & DevSecOps, Blockchain

## WORK EXPERIENCES

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### Lusis

09/2022 - 06/2023

*C++ developer (Banking)*

Paris

- Reduced ATM downtime by 10% by automating internal database purge processes
- Translated a fraud detection application from R to Python, improving system maintainability
- Optimized core POS (Point of Sale) functions, enhancing transaction processing speed by 10%

### BNP Paribas

07/2023 - 08/2025

*DevSecOps Engineer (Cloud Automation)*

Paris

- Accelerated IBM BPM processes with JavaScript & automated restarts via Bash scripting, reducing downtime
- Built a server monitoring tool with secure database access using Python & HashVault
- Designed a new orchestrator in Python (Airflow) & automated deployments using Terraform & Ansible
- New orchestrator pentest and 0-day found in a closed source software using Rust Fuzzing and symbolic execution

### Freelance

01/2024 - Now

*Freelance Full-Stack & DevSecOps Engineer - CISO*

Paris

- **Rivage Investment** - DevSecOps Engineer leveraging Q&A tests on a Golang financial app with Teamcity CI/CD
  - Golang, powershell scripting, python
- **Impactup CISO** - Automated provisioning, deployment and security on OVH cloud infrastructure (IAM, WAF). Python Django Backend, implemented security check, automated email verification, and MFA. Developed an automated SOC that integrates vulnerability scan, threat detection, and penetration testing. React native mobile deployment.
- **P4S** - Embedded secure VPN protocol (IKEv2) in C/ASM for a RISC-V FPGA - ANSSI security Validated
- **Capturism** - Photobooth software solution used by thousands of users, leveraging Python, Next.js & MongoDB

## EDUCATION

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### TSI - Latvian University of Science and Technology

07/2024 - 08/2024

*Focused on IoT security, embedded device programming & securing network architectures*

Riga, Latvia

### EPITA - Master's of engineering (Cybersecurity, System, Cloud & Networking)

*C/C++/ASM/Rust, Kernel Development, Penetration Testing, Reverse Engineering & vulnerabilty exploit*

Paris

## PROJECTS

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### Linux Like kernel - C/ASM

10/2023

*Built a custom 32 bits Linux-like kernel with interrupt handling & memory management*

- Implemented a bootloader, memory allocation, and VGA graphics for userland
- Successfully ran Doom Game, demonstrating graphical & system-level capability.

### Reverse engineer CTF - EPITA

06/2024

*CTF challenge builder - Reverse Team manager - C, Python and Rust*

- Set up a complex cloud architecture inside OVH cloud using Terraform and Docker to ran all challenges seamlessly
- Designed multi-threaded C challenges with RSA encryption & anti-debug techniques/ obfuscation and SMT solver
- Created Rust (WASM) smart contract challenge for Elrond Test-Net, TOCTU vulnerability
- Assisted in testing OSINT & reverse-engineering challenges (Python/C)

### Designing fault tolerant system through IA and metaprogramming - Cybersecurity research

03/2025

*Fine-tuning LLM model for web based attack detection and repair through code generation and metaprogramming*

- Fine-tuned LLAMA3.1 8B in python, dataset generated with MOA, RAG code generation
- Threat detection through logs and scapy based NIDS