

# Sharing the CYBERUS Experience

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Biplab GAUTAM

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Ribiea RAMZAN

Mashal ZAINAB

**CYBERUS 2022-2024**



# Paweł BORSUKIEWICZ



**Current position:** Doctoral Researcher at University of Luxembourg, SnT, TruX  
*Research domain: Facial Recognition Prevention*

**Topics of Interests:** Pentesting, Threat Intelligence, Adversarial Attacks on AI

**Master's Thesis:** *"Design and implementation of detection gap analysis in industry environment"* at Hilti (Buchs SG, Switzerland)

**Summer Internship:** *"Generation of benchmark data sets for anomaly-based intrusion detection in industrial control systems"*, Universidad de León (León, Spain)

**Past Experiences:** Junior Cyber Security Consultant at KPMG (Warsaw, Poland)

**Contact:** [Linkedin](#) [Email](#)

# Biplab GAUTAM



**Current position:** Security Research Engineer at *NEC Laboratories Europe, Germany* since October 2024

**Topics of Interests:** Threat Intelligence, Security Monitoring, AI in Cybersecurity

**Master's Thesis:** *"CTI Extraction using LLMs" at NEC Laboratories Europe*

**Summer Internship:** *Volvo Construction Equipment, Sweden (2023)*

**Past Experiences:** SIEM Solutions Engineer, Logpoint (2018-2021)  
Clamhook, Ed-tech startup (2021-2022)

**Contact:** [Linkedin](#) and my [website](#).

# Amarilda KOKA



**Current position:** Junior Analyst Information Security Management, SES, Luxembourg.

**Master Thesis:** “Integrating Security in DevOps: A Comparative Evaluation Framework of Application Security Testing Tools for an Organization in the Satellite Telecommunication Industry.” (Luxembourg)

**Summer Internship - Publication:** [Navigating Security Issues of Interoperability in the Digital Identity System of a Smart City](#) (Canada)

**Mentee:** Women4Cyber Belgium & Women Cyber Force Luxembourg

**Volunteer Staff:** Code Club Luxembourg

**Past Experience:** IT & Business Analyst, Founder of start-up “Student Life”. (Albania)

**Contact:** [LinkedIn](#)

# Ribiea RAMZAN



## Software Cyberus

**Current position:** Security Engineer at *Fujitsu Technology Solutions, Luxembourg* since September 2024

**Topics of Interests:** Security Monitoring, Network Security, AI in Cybersecurity, Cyber Threat Intelligence

**Master's Thesis:** “*Incident Response using LLMs*” at *Fujitsu Technology Solutions, Luxembourg*

**Past Experiences:** SIEM Engineer, ELK backend

[LinkedIn](#), [Email](#)

# Mashal ZAINAB



Software CYBERUS

Current Position: **Doctoral researcher** at Interdisciplinary Centre for Security, Reliability and Trust (**SnT**), Security, Reasoning and Validation (**SerVal**) Group, University of Luxembourg, **Luxembourg**

Masters Thesis: **itrust consulting** Luxembourg

Thesis topic: Design and Implementation of a SIEM oriented IDPS Using Time-Series Anomaly Detection via Graph Attention Network

Current Research: Adversarial Machine Learning

Organising member:

- Trustworthy AI Luxembourg (host)
- Women in AI Benelux

[LinkedIn](#) and [Email](#)

# Moving to Luxembourg, how to prepare?

- Apply for an **ATS** (temporary authorisation to stay) [ATS application](#)
- **Academic recognition** of your previous diplomas (you will not get a student card until that) [application](#)
- **Start saving money** (housing advance etc.)
- You can live near the French border by extending your French permit, but you'll need a special permit from Luxembourg for the internship.
- **Learn French**
- Join **Erasmus Student Network Luxembourg (ESN)** - for fun trips, gatherings and parties.
- Mentally prepare yourself for the **weather!** 🌧️ (don't forget your vitamins)





# After Arriving in Luxembourg

- Try to find accommodation as soon as possible (if you don't have it)
- Search for internships and start applying right away when you arrive.
- You **cannot** apply for residence card without accommodation and ATS expires in 2 - 3 months
- **Registration** of accommodation in commune
- Medical Certificate ([Centre Medical](#)) and TB test ([Ligue LU](#))
- Biometrics at Ministry of Immigration
- CNS Card ([CNS](#))
- [Main site for procedures](#)





# How to prepare to move to Belgium

## Extension of Residence Permit:

- Do it in France before moving to Belgium
- Apply for it well ahead (3 months prior)

## Finding accommodations in Bruxelles

1. Rent prices between 600 Euros and 800 Euros
2. Look around Ixelles, Etterbeek to be closer to the university (ULB Solbosch is your campus)
3. Very difficult to get university housing
4. Register yourself at the city office after arrival

### 5. Resources

- a. ULB Housing [Recommendations](#)
- b. ULB [Studapart](#)
- c. [Housinganywhere](#)
- d. [Xior](#) student housing
- e. Les [Estudines](#) - Studio Apartments
- f. [Immoweb](#)



# Housing (Student accommodation)

- **ALMOST IMPOSSIBLE IN BELGIUM** 😭

## Luxembourg:

- Highly limited availability
- Around 500-600 EUR per month
- Basic furniture included
- No CAF equivalent
- May be allocated (very) late
- Majority of places available in Esch/Belval
  - Commute to Kirchberg (~1h)
- Deposit: 2 months rent (1st payment = 3\*rent + insurance ~50 EUR)
- You need to get student ID before signing contract (Both procedures in Belval - MSA, 5th floor)
- Commune registration in 8 days (Check required documents)
- Limited to 2 years (for all levels of studies combined)
- **Apply 10 weeks before planned move-in date**



- <https://www.uni.lu/life-en/accommodation/>

# Luxembourg Housing (Private market)

- We Connect: <https://weconnect.lu/en/> (€595)
- Real Estate Agency (But you are a student)
- In Luxembourg City, €1000 - €1200 for a room
- Outside Luxembourg City: €700 - €1000
- <https://www.immotop.lu/en/location-appartements/luxembourg/>
- <https://www.athome.lu/en/rent/apartment/luxembourg>
- <https://www.luxfriends.eu/>
- Facebook groups (more helpful than standard sites)
  - <https://www.facebook.com/groups/VaubanFort/>
  - <https://www.facebook.com/groups/717437559045972/>
  - <https://www.facebook.com/groups/1584295371691010/>
- ***Residence Registration in Commune***
- In Audun-le-tiche France: [Twenty-Campus](#) (Eligible for CAF)

# Searching for Internships/Jobs

## Student Jobs:

University of Luxembourg has some student jobs as well like IT Hub.

## Suggestions:

1. Get some good certifications and build some meaningful projects.
2. Tailor your CV and cover letter to each opportunity. Not one generic CV.
3. Search with terms not just *internship* but also *thesis*, *student*, *werkstudent*, etc.
4. Don't just search in *Linkedin* but also in other local platforms (*stepstone*, *brusselsjobs*, *xing*, *indeed*, *moovijobs* etc.)
5. Find your niche.
6. Reach out, meet people, ask for referrals and don't get discouraged by rejections.
7. Give priority on recent advertisements (advertised a week or less).
8. Mastering communication and collaboration.
9. Imposter syndrome is normal.

# Jobs and Internships during and after CYBERUS

## Where to look for?

- LinkedIn
- Job Fair (Twice a year in Luxembourg)
- Reach out to companies, managers and recruiters even if there are no positions on the websites.
- <https://en.jobs.lu/>
- <https://en.moovijob.com/job-offers/jobs-luxembourg>
- <https://lu.indeed.com/?from=gnav-homepage>
- <https://www.glassdoor.com/Job/index.html>
- <https://www.jobfinder.lu/en/jobs>
- <https://www.monster.lu/en/>
- <https://adem.public.lu/en/demandeurs-demploi/consulter-offres-demploi.html>
- <https://europa.eu/eures/portal/jv-se/search>
- <https://www.cybersecurity.lu/jobs>

# Searching for Internships/Jobs in Belgium or EU

## Challenges

- Priority for French or Dutch language proficiency.
- Opportunities in EU focused organizations (not so suitable for non-EU nationals).
- ULB is a big university with thousands of students.

## Possibilities

- As an Erasmus Student, the whole EU is open for you.
- No extra work permit required (even for non-EU) while doing the thesis internship.
- Germany, Netherlands, France, Luxembourg, Switzerland.
- If interested in research, there are multiple research labs around (ULB, KU Leuven, Belgium Military Institute, TU Delft, Radboud University, CISP, Fraunhofer, Max Planck Institutes and so on)



# Certifications

Certifications in Cybersecurity are investments if you want to work in the industry.

## For Beginners (0-2 years of experience)

1. CompTIA [A+](#), [Network+](#), ISC2 [CC](#)
2. Azure Fundamentals ([AZ-900](#)) and Microsoft Security Compliance and Identity [SC-900](#)

## For Intermediate (2-4 years of experience)

1. CompTIA [Security+](#), [CySA+](#)
2. Azure Security Operations Analyst Associate ([SC-200](#)), Azure Security Engineer Associate ([AZ-500](#))
3. Certified Ethical Hacker ([CEH](#)) or [OSCP](#)

**No need to have all of them.**

## For Advanced (5+ years of experience)

1. ISC2 [CISSP](#)
2. ISACA [CISM](#)
3. ISO 27001 Lead Auditor, Implementer ([PECB](#) or [IRCA](#))

- They are not cheap
- Know your domain of interest.
- Good to have 2 certifications in a job application
- Microsoft certifications are best value for your money

# Don't Forget to

## Focus on your French

Language proficiency increases your chances of getting hired by 5x



LT

In|Tech  
POST LUXEMBOURG Group

Dear candidates, **proficiency in French is mandatory (C1)** for our open positions.

Thank you for your interest

Expats beware  
2 in 3 jobs in Luxembourg  
require **French**

LUXEMBOURG TIMES



**And Take rejections like a Champion !!!**

# Going into research after CYBERUS

- Do you want to do a PhD?
- Be proactive
- Regular vs Industrial PhD
- Usually 3-4 years; sometimes possible part-time
- Consider salary / scholarship availability
- Funding/budget for your research
- Plan in advance - university bureaucracy takes time

Doctoral studies at UL: <https://www.uni.lu/research-en/doctoral-education/>

Open PhD positions UL: <https://tinyurl.com/mw2z3rhp>

# Networking

## Cybersecurity:

- [Women Cyber Force](#)
- [Women4Cyber](#)
- [Hackathon](#)
- [Luxembourg House of Cybersecurity](#)



## Business-Innovation:

- [Startup-Luxembourg](#)
- [Business Events](#)
- [Lux Innovation](#)
- [Chambre de Commerce](#)
- [LHoFT](#)



## General:

- [Networking Events](#)
- [EventBrite](#)
- [Meetup](#)



# Volunteering



LUXEMBOURG

<https://codeclub.lu/>



<https://www.croix-rouge.lu/en/>



<https://www.asile.lu/posts/display/15>



<https://www.fal.lu/support/volunteer/>



<https://digital-inclusion.lu/volunteering/>



<https://servethecity.lu/>

# Luxembourg Magazines

Get to know more about what happens in Luxembourg.

## LUXEMBOURG TIMES

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<https://www.luxtimes.lu/>



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<https://www.rtl.lu/>

Tip: Read the free newspaper (L'essentiel) for your french learning! :)



# Languages

Luxembourgish: <https://llo.lu/en/>



French and more: <https://www.duolingo.com/>



For Belgium: French, Dutch



# Final Thoughts Before You Go...

- **Don't just study—live the experience.** 🎓 ✨ Erasmus is more than academics; it's about discovering yourself in new places, with new people. 🧳 🏠
- **Make memories, not just grades.** 📷 💬 Say yes to spontaneous trips and weird local foods. 🍝 🚂
- **You'll face challenges—and that's okay.** 🏔️ 💪 Not everything will go as planned, but every setback teaches you something valuable. 📖 🔧
- **Growth often hides in discomfort.** 🌱 🔥 The moments that feel the hardest often become the ones you treasure most. 💭 ✨
- **It will be challenging, but nothing great is ever easy.** ⚡ 🏆 The struggle makes the success even sweeter. 🏺 🎯
- **This is your story—make it unforgettable.** ✍️ 📚 ✨



# Q & A

Your Turn!

