

# CLEMENT AMISI FATAKI

PhD Applicant – Computer Science

AI for Cybersecurity | Symbolic & Hybrid AI | Secure Next-Generation Networks

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Location: Kinshasa, DR Congo

LinkedIn: Clement Amisi

## RESEARCH PROFILE

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Research-oriented computer scientist with strong expertise in network security, AI-based attack detection, and secure distributed systems, combining machine learning with symbolic reasoning approaches.

Seeking PhD admission in Computer Science / Cybersecurity / AI Systems.

## RESEARCH INTERESTS

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- Attack Detection in 5G/6G Networks
- Symbolic AI and Neuro-Symbolic Systems
- Intrusion Detection Systems
- NFV and Cloud-Native Network Security
- Explainable AI for Cybersecurity
- Applied Cryptography

## EDUCATION

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Master of Engineering (M.Eng.) in Computer Technology 2019  
Beijing Jiaotong University, China  
Thesis: Privacy-Preserving Authentication for Accessing Vehicular Fog Services  
Supervisor: Prof. Dr. Xiaolin Chang

Bachelor of Science (B.Sc.) in Computer Science 2012  
University of Kinshasa, DR Congo  
Thesis: Connectivity and Security of Wireless Networks

## ACADEMIC EXPERIENCE

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- Senior Teaching Assistant, University of Kinshasa 2013–Present
  - Teaching and lab supervision for large-scale undergraduate and graduate classes
  - Course development in network architecture, operating systems, Computer architecture, Applied Cryptography, Cybersecurity and Network security
  - Supervision of undergraduate research projects and theses
- Teaching Assistant, Protestant University in the Congo 2021–2022
  - Teaching and lab supervision for large-scale undergraduate and graduate classes
  - Course development in operating systems, Computer architecture
  - Supervision of undergraduate research projects and theses
- Teaching Assistant, Institute of Applied Engineering and Technology 2020–202

- Teaching and lab supervision for large-scale undergraduate and graduate classes
  - Course development in network architecture, operating systems, Applied Cryptography and Network security
  - Supervision of undergraduate research projects and theses
- Instructor, Ascitech – Academy of Science & Technology 2020–2021
  - Teaching and lab supervision for large-scale undergraduate and graduate classes
  - Course development in operating systems and Network security
  - Supervision of undergraduate research projects and theses
- Co-Founder 2019 – Present  
 Congolese Institute for Cybersecurity Research and Advisory (CICRA)
  - Founded a national research and advisory initiative in cybersecurity
  - Conducted training and research activities in cyber risk governance
  - Promoted interdisciplinary research in AI, security, and digital resilience

## RESEARCH EXPERIENCE

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Graduate Research Student – Network Security

Beijing Jiaotong University 2017–2019

- Conducted research on security and privacy in intelligent transportation networks
- Analyzed attack surfaces in distributed and virtualized network environments
- Studied authentication, trust management, and anomaly detection in network traffic
- Collaborated in an international research laboratory environment

## TEACHING EXPERIENCE

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Undergraduate Courses

- Computer Architecture
- Operating Systems
- Network Architecture
- Computer Security
- Real-Time Systems
- Algorithms and Data Structures

(≈ 850 bachelor's students, multi-year teaching experience under guidance of Prof. Kasengedia Pierre )

Graduate (Master's) Courses

- Applied Cryptography
- Network Security
- Cybersecurity
- Blockchain Technologies
- AI & Cybersecurity

(≈ 250 Master's students, multi-year teaching experience under guidance of Prof. Kasengedia Pierre)

## INDUSTRY EXPERIENCE

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Senior DevOps Engineer – Secure Payment Systems, Vodacom/Vodafone, DRC, 2020–Present

- Designed and secured large-scale, distributed FinTech platforms
- Worked on anomaly detection, system monitoring, and risk mitigation
- Applied security-by-design principles in cloud-based and API-driven systems
- Exposure to real-world attack scenarios and operational security constraints

Big Data & Cloud Engineer, Astek China

2018–2019

- Analyze software requirements and system components to inform overall system design
- Define and validate the software implementation architecture
- Design and develop cross-subsystem modules and core algorithms
- Collaborate with cross-functional teams to ensure architectural consistency and technical alignment
- Participate in open-source and standards forums to present solutions and share best practices

## TECHNICAL SKILLS

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- Programming: Python, Java, C/C++, MATLAB
- AI & Security: ML, Anomaly Detection, Cryptography
- Systems: Linux, Cloud, Microservices
- Databases: Oracle, PostgreSQL, MongoDB
- Simulations Tools: NS3, Cisco Pack Tracer

## LANGUAGES

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French (Fluent), English (Fluent), Chinese (intermediate)

## HOBBIES

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Sports, Movies, and Traveling

## AWARDS AND HONORS

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Fully Funded Chinese Government Scholarship for Master's Studies

2017–2019

## REFERENCES

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- **Xiaolin Chang**, Professor of Computer Science at Beijing Jiaotong University, China CN  
[xlchang@bjtu.edu.cn](mailto:xlchang@bjtu.edu.cn)
- **Kasengedia Pierre**, Professor of Computer Science at University of Kinshasa  
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