

# 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

( $\approx$  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

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

## INDUSTRY EXPERIENCE

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 Tracert

## 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
- **Kasengedia Pierre**, Professor of Computer Science at University of Kinshasa  
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- **Kafunda Katalay**, Professor of Computer Science at University of Kinshasa  
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