

KAYEMBA HAMIIDU

Security Engineer | Application & Infrastructure Security

Web Security • Cloud Sec • Automation • DevSecOps • Security Generalist

LinkedIn: [kayemba-hamiidu](#)
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GitBook: <https://hamcodes.gitbook.io/hackersnotes>
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PROFESSIONAL PROFILE

Security-focused engineer with hands-on experience in web application security, API testing, Linux systems, cloud fundamentals, automation, and secure infrastructure practices. Experienced in vulnerability assessment, security research, Docker environments, and scripting for security workflows. Strong self-driven learner with a builder mindset, combining offensive security knowledge with practical problem-solving and security-focused development practices.

EDUCATION

Kyambogo University	Bachelor of Education	(2010–2014)
Bridge Education Group	Master of TEFL / TESOL	(2019)

SECURITY & INFRASTRUCTURE

- **Web Application Security** – OWASP Top 10, API Security Testing, Authentication & Authorization Testing
- **Infrastructure Security** – Linux Systems, Networking Fundamentals, Docker & Container Security
- **Cloud Fundamentals** – AWS / Azure / Google Cloud Fundamentals
- **Security Automation** – Python, Bash, Google Apps Script
- **Dev & Deployment** – GitHub, CI/CD exposure, Web Deployment, MySQL, NodeJS
- **Networking** – TCP/IP, DNS, VPN Fundamentals
- **Security Labs** – Active Directory Labs, Virtual Machines, Home Lab Testing Environments
- **Security Research** – PortSwigger Labs, TryHackMe, Hack The Box

TECHNICAL SKILLS

- **Programming & Scripting** : Python, Bash, JavaScript, SQL, Google Apps Script
- **Security** : Web Application Security, API Security Testing, Vulnerability Assessment, OWASP Top 10, Security Reporting
- **Infrastructure & Cloud** : Linux, Docker, Active Directory, Networking Fundamentals, Virtual Machines, AWS, Google Cloud, Azure
- **Development & Tools** : GitHub, VS Code, Web Development, REST APIs, Docker Containers
- **Security Platforms & Lab** : PortSwigger, TryHackMe, Hack The Box, APIsec University Labs

PROFESSIONAL EXPERIENCE

Security & Technology Educator / Independent Security Researcher

Present

- International & Private Schools - Vietnam/Saudi/online
- Conducted web application and API security testing using OWASP methodologies and security labs.
- Built and maintained virtualized home lab environments using Linux, Docker, Active Directory, and virtual machines for security research and testing.
- Developed and deployed web applications and backend systems using PHP, Python, JavaScript, and SQL.
- Worked with GitHub deployments, cloud fundamentals, automation workflows, and containerized environments.
- Researched vulnerability assessment methodologies, authentication systems, web application risks, and secure infrastructure practices.

Developed STEAM curricula robotics kits, Coding programs, 3D and cybersecurity learning resources for schools and learning centres

CERTIFICATIONS

- **TCM-Security** – Practical Ethical Hacking
- **APIsec University** – API Security offsec
- **TryHackMe** – Cybersecurity Labs
- **HacktheBox**
- **Google/AWS/Azure /Oracle** – Cloud security Fundamentals
- **The ODIN project** – Fullstack Web Dev

PROFESSIONAL STRENGTHS

Founder & STEAM Educator – www.hamcodes.com

- Produced security-focused technical content and cybersecurity awareness resources through Hamcodes platforms.
- EdTech Tools : Moodle, Canva, Onshape, OpenSCAD, HPROBOT BLOCKLY, Blender, ThinkCAD, Scratch, AI-agents

Dear Hiring Team,

I'm excited to apply for the Security Engineer position at

After going through the role details, team profiles, engineering culture, and technical direction of the company, I felt strongly aligned with the type of environment and challenges you are building around. The combination of product security, infrastructure security, automation, and ownership in a fast-moving team is exactly the direction I want to continue growing in professionally.

My background combines hands-on web application security, API testing, scripting, Linux systems, cloud fundamentals, and practical security research. Over the past several years, I have independently built home lab environments using virtual machines, Docker containers, Active Directory, and web application testing platforms to deepen my understanding of offensive and defensive security practices.

I have experience working with OWASP methodologies, API security concepts, vulnerability assessment workflows, and secure development practices through continuous self-driven learning, labs, and technical projects. Alongside security, I also have practical experience with Python, Bash, JavaScript, SQL, GitHub deployments, and cloud platforms including AWS, Google Cloud, Oracle and Azure fundamentals.

What particularly interests me about is the opportunity to contribute beyond a narrow security function. I enjoy building systems, solving problems independently, improving workflows, and working closely with engineering teams to strengthen security without slowing down innovation. The startup environment and ownership-focused culture described in the role are especially appealing to me.

In addition to technical work, my experience working internationally in education and technology has strengthened my communication skills, adaptability, and ability to explain technical concepts clearly to both technical and non-technical audiences. I believe this would also help when contributing to security awareness, operational processes, and cross-team collaboration within Kaedim.

I am highly motivated to continue developing as a security engineer and would welcome the opportunity to contribute to Kaedim's security infrastructure, product security efforts, and long-term security culture.

Thank you for your time and consideration. I look forward to the opportunity to speak further.

Best regards,

Kayemba Hamiidu

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GitHub: [kayembahamid](https://github.com/kayembahamid)

GitBook: <https://hamcodes.gitbook.io/hackersnotes>

PROFESSIONAL SUMMARY

Cybersecurity Trainer, Security Engineer, and Technical Educator with over 5 years of experience delivering technology training, developing hands-on cybersecurity laboratories, and creating technical learning programs. Specializing in OWASP Top 10, API Security, Linux Security, Secure Coding, Cloud Fundamentals, Python, Networking, and Application Security.

Experienced designing and delivering instructor-led training, technical workshops, bootcamps, and practical learning environments for students, professionals, and corporate learners. Strong ability to explain complex technical concepts through real-world examples, hands-on exercises, and project-based learning.

Combines practical security knowledge with curriculum design, technical documentation, and training development experience to help individuals and organizations strengthen their cybersecurity and technology capabilities.

CORE SPECIALIZATIONS

- Cybersecurity Training
- Web Application Security
- OWASP Top 10
- API Security
- Linux Security
- Secure Coding
- Python for Security
- Cloud Security Fundamentals
- Networking Fundamentals
- Security Awareness
- Vulnerability Assessment
- Technical Documentation
- Curriculum Development
- Technical Workshop Delivery

TECHNICAL SKILL

- Web Application Security
- API Security Testing
- Authentication & Authorization Testing
- Vulnerability Assessment
- OWASP Top 10
- Security Reporting
- Security Awareness Training

Infrastructure & Cloud

- Linux Administration
- Docker Containers
- Active Directory Fundamentals
- Virtual Machines
- Networking Fundamentals
- AWS Fundamentals
- Microsoft Azure Fundamentals
- Google Cloud Fundamentals
- Cloud Security Fundamentals

Programming & Automation

- Python
- Bash
- JavaScript
- SQL
- Google Apps Script

Development & Tools

- GitHub
- VS Code
- REST APIs
- Docker
- Web Development

TRAINING AREAS

- Cybersecurity Fundamentals
- Web Application Security
- OWASP Top 10
- API Security Fundamentals
- Linux Fundamentals
- Linux Security Fundamentals
- Python Fundamentals
- Python for Security
- Secure Coding Fundamentals
- Docker Fundamentals
- Networking Fundamentals
- Cloud Fundamentals
- Cloud Security Fundamentals
- Security Awareness Training
- Introduction to Ethical Hacking
- AI Literacy and Security Awareness

PROFESSIONAL EXPERIENCE

Founder & Technical Educator

Hamcodes

2017 – Present

- Designed and delivered cybersecurity, coding, AI literacy, and technology training programs.
- Developed hands-on cybersecurity laboratories and technical learning environments.
- Created curriculum, assessments, workshops, and technical learning resources.
- Delivered instructor-led training and project-based learning experiences.
- Authored technical publications, cybersecurity learning materials, and educational resources.
- Built practical laboratory environments using Linux, Docker, Active Directory, APIs, and virtual machines.
- Developed learning pathways for cybersecurity, programming, networking, and cloud technologies.

Independent Security Researcher

Present

- Conducted web application and API security testing using industry-standard methodologies.
- Built and maintained Linux, Docker, Active Directory, and virtualized security laboratory environments.
- Researched authentication systems, web application vulnerabilities, and secure infrastructure practices.
- Developed automation scripts and security-focused workflows using Python and Bash.
- Participated in continuous professional development through practical security labs and training platforms.

ADDITIONAL TECHNICAL EXPERTISE

- Robotics and Automation
- Arduino Fundamentals
- STEM Technology Education
- AI Literacy
- Digital Citizenship
- Coding Education
- Project-Based Learning Design

EDUCATION

Master of TEFL / TESOL

Bridge Education Group

Bachelor of Education (Mathematics & ICT)

Kyambogo University

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

- TCM Security – Practical Ethical Hacking
- APIsec University – API Security
- TryHackMe Learning Paths
- Hack The Box Labs
- AWS Cloud Fundamentals
- Microsoft Azure Fundamentals
- Google Cloud Fundamentals
- Oracle Cloud Fundamentals
- The Odin Project – Full Stack Web Development

LANGUAGES

- English – Fluent (Professional Working Proficiency)

PROFESSIONAL STRENGTHS

- Instructor-Led Training
- Technical Presentation Skills
- Curriculum Development
- Workshop Facilitation
- Technical Documentation
- Hands-On Lab Development
- Adult Learning
- Corporate Training
- Cross-Functional Communication
- Problem Solving

KAYEMBA HAMIIDU

IB & Cambridge STEAM / Computer Science Teacher /Author

Coding • Robotics • Cybersecurity • Physics • Chemistry • AI Literacy

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PROFESSIONAL PROFILE

Experienced IB and Cambridge-aligned STEAM & Computer Science Teacher with over 5 years of international education and technology experience. Specializes in Coding, Robotics, Cybersecurity, Digital Citizenship, and hands-on Science learning for students aged 6–18. Strong practitioner of inquiry-based learning, interdisciplinary STEAM units, formative assessment, and student agency.

EDUCATION

Kyambogo University	Bachelor of Education (Mathematics & ICT)	(2010–2014)
Bridge Education Group	Master of TEFL / TESOL	(2019)

CURRICULUM & PEDAGOGICAL ALIGNMENT

- **IB PYP / MYP** : Inquiry-based learning, ATL skills, transdisciplinary STEAM units
- **Cambridge Primary & Secondary** : Computational thinking, scientific inquiry
- **Assessment – Formative assessment**
- **Safeguarding & Digital Literacy** : Online safety, AI awareness

STEAM & SUBJECT EXPERTISE

Computer Science & Coding

- Python, Scratch, JavaScript, C++, SQL, APIs, GitHub, Web/App Development

Robotics & Engineering Design

- Arduino, Sensors, Motors, Servo Systems, 3D Printing (intro), Block & Text-Based Programming

EdTech Tools

- Code.org (CS Verified Teacher), Scratch, Google Workspace, Microsoft 365, LMS

Cybersecurity & Digital Citizenship

- Cyber Hygiene, OWASP Basics, OSINT Awareness, Networking fundamentals, Ethical Hacking Concepts

Science (Physics & Chemistry)

- Forces & Motion, Electricity, Data & Measurement, Safe Chemistry Experiments, Scientific Method

EdTech Tools

- platforms, Canva, AI-assisted learning tools, VScode, Blender, ThinkCAD, Docker, AI-agents

PROFESSIONAL EXPERIENCE

STEAM & Computer Science Teacher 2017- Present

International & Private Schools - Vietnam/Saudi/online

- Planned and delivered IB and Cambridge aligned STEAM lessons, integrating coding, robotics, science-experiments, and cybersecurity awareness.
- Designed inquiry-driven units encouraging critical thinking, collaboration, and student reflection.
- Led hands-on-physics and chemistry - experiments, emphasizing. safety observation, and data analysis.
- Integrated digital citizenship, AI literacy, and online safety into computing and home room programs.

Founder & STEAM Educator – www.hamcodes.com

- Developed STEAM curricula robotics kits, coding programs, and cybersecurity learning resources for schools and learning centres aligned with IB.ATL skills and Cambridge objectives.

CERTIFICATIONS

- **Code.org** - CS Verified Teacher
- **TCM-Security** -Practical Ethical Hacking
- **TryHackMe**
- **HacktheBox** - Cybersecurity Labs
- **APIsec University** - API Security offsec
- **Google/AWS/Azure** - Cloud Fundamentals
- **YouAccel**
- **The ODIN project** - Fullstack Web Dev

PROFESSIONAL STRENGTHS

- Inquiry-Based & Project-Based Learning
- International Classroom Experience
- Cross Curricular STEAM Integration
- Parent & Stake holder Communication
- Safeguarding & Digital Responsibility
- Student engagement & Classroom Management

REFERENCES

Available upon request