

# PAUL TANDOHASARE

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## PROFILE

A young professional with a strong IT background whose passion lies in cybersecurity, bringing over six years of software development experience and more than a year in networking, dedicated to advancing secure software and network defense through research and innovation.

## EDUCATION

### University of Education, Winneba – Ghana

Bachelor of Science in Information Technology Education (2018 – 2022)

**Core Courses:** Research Methods, Communication and Study Skills, Methods of Teaching IT.

**Final Year Project:** School Management System – Designed and implemented a secure web-based application for managing student, staff, and administrative data efficiently.

## RESEARCH AND TEACHING EXPERIENCES

- **Undergraduate Research Project – University of Education, Winneba (2022)**  
Conducted a project titled “*School management system: a case study of St. Monica’s Junior High School.*” Designed a secure web-based system to manage student and staff data, emphasizing authentication, access control, and database security.
- **Independent Cybersecurity Research (Ongoing)**  
*Exploring secure software design, ethical hacking, and cloud security architectures.* Conducting simulations on penetration testing, data protection, and digital forensics to develop practical cybersecurity solutions.
- **Research Methods Facilitation – Final Year Student-University of Education, Winneba (2022)**  
Led peer-to-peer workshops on *Research Methods*, mentoring colleagues on research design, data collection techniques, analysis, and academic writing for final-year projects.
- **Teaching Internship – Denkyemouso M/A Basic School (2022)**  
Taught ICT to upper primary and junior high students, integrating digital literacy with practical computer applications.
- **Facilitator – Infotess Community of Practice (2021-2022)**  
Taught *Fundamentals of Operating Systems and Software Installation* to undergraduate peers and community learners. Guided participants through system setup, troubleshooting, and operating system configuration.

- **Voluntary Teaching – Kumasi Amakom (Nov 2021)**  
Conducted ICT lessons to enhance basic computing and digital skills for students and community learners.
- **Voluntary Teaching – Volta Region (Oct 2023)**  
Delivered ICT literacy sessions and introduced students to safe internet practices and foundational coding skills.
- **Software Training – The Trust Hospital, Accra (Mar 2025)**  
Facilitated training on using hospital information systems, focusing on system security, data entry, and user management.

## **AWARDS AND ACHIEVEMENTS**

- **Outstanding National Service Performance, Parliament House of Ghana (2023)**  
Recognized for dedication and technical contribution to IT infrastructure management.
- **Dean's Recognition, University of Education, Winneba (2022)**  
Recognized as Best Student Intern for outstanding performance in teaching ICT during internship program.
- **Innovation in Software Design Award, PADEV (2021)**  
Honored for developing a secure and user-friendly client management system.

## **WORK EXPERIENCE**

- **CCTV Control Room Technician, The Trust Hospital Company, Accra (Oct 2024 – Present)**  
Configured DVR/NVR systems, monitored surveillance networks, and ensured secure data recording and network integrity.
- **IT Infrastructure (National Service), Parliament House of Ghana, Accra (Nov 2022 – Nov 2023)**  
Assisted in LAN/WAN management, firewall configuration, and VPN setup. Supported cybersecurity operations and data backup management.
- **Freelance Software Developer, PADEV, Kumasi (Nov 2018 – Mar 2021)**  
Designed secure web and desktop applications, implemented authentication systems, and collaborated with clients on system optimization.

## **INTERNSHIPS**

- **Teaching Internship, Denkyemouso M/A Basic School (2022)**  
Facilitated ICT teaching, classroom management, and digital education delivery as part of the teacher training program.

## PUBLICATIONS

- Upcoming Publication: *“Integrating Secure Software Design Principles into Web-Based Educational Systems”* (Manuscript in preparation).

## VOLUNTEERISM AND COMMUNITY IMPACT

- Conducted free ICT training sessions for basic school students in Kumasi Amakom (2021) and Volta Region (2023).
- Organized community workshops on safe internet use and data privacy awareness.
- Collaborate with Gentle Souls Foundation and organize ICT training for girls in Atwima Boko community in Kumasi.

## LEADERSHIP

- **Team Lead**, Find Hostel System Project (2021)  
Coordinated a team to design and implement a secure web-based hostel management platform.
- **Project Leader**, Event Vote System (2022)  
Oversaw the development of a secure, online event voting platform to ensure data integrity and transparency.
- **Infotess Organizer**, University of Education, Winneba (2021–2022)  
Organize training sessions and mentored students in programming and network setup.

## PROJECTS

### Find Hostel System (2021 – 2022)

- Designed and implemented a secure web-based platform for students to find hostel accommodations and for hostel managers to manage listings and tenants.
- Integrated authentication, data validation, and encryption features to enhance security and protect user information.
- **Technologies used:** HTML, CSS, PHP, JavaScript, MySQL.

### Event Vote System (2022 – 2023)

- Developed a real-time online voting platform for event organizers to manage voting sessions securely.
- Implemented a two-tier payment and result verification system to ensure transparency and prevent fraudulent activities.
- Enhanced system reliability through database normalization and secure API integration.
- **Technologies used:** PHP, JavaScript, HTML, CSS, MySQL

## **SEMINARS, WORKSHOPS & TRAINING**

**Software Deployment and Maintenance Training** – The Trust Hospital Company (10<sup>th</sup> and 11<sup>th</sup> April 2025)

- Delivered internal sessions on secure software deployment and maintenance best practices.

**Software Deployment and Maintenance Training** – The Trust Hospital Company (30<sup>th</sup> November and 1<sup>st</sup> December 2024)

- Delivered internal sessions on secure software deployment and maintenance best practices.

**Cybersecurity Awareness Seminar** – Parliament House of Ghana (30<sup>th</sup> September 2023)

- Participated in staff cybersecurity sensitization workshop on data protection and phishing awareness.

**ICT in Education Workshop** – University of Education, Winneba (5<sup>th</sup> March 2022)

- Attended a seminar on the integration of information technology into teaching and learning.

## **SKILLS**

- **Research Skills:** Data collection, literature review, system analysis, and report writing.
- **Communication Skills:** Technical documentation, teaching, teamwork, and presentation delivery.
- **Problem-Solving Skills:** Troubleshooting network and software issues, analytical thinking, and innovative solution design.
- **Technical Skills:**
  - Programming** (HTML, CSS, JavaScript, PHP, Visual Basic),
  - Networking** (LAN/WAN configuration, VPN setup),
  - Cybersecurity** (firewall setup, penetration testing basics, access control),
  - Tools** (Git, MySQL, WordPress, Figma, Microsoft Office, PowerPoint, Excel, Access, SPSS, Genstat).