

PAUL TANDOH ASARE

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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 (10th and 11th April 2025)

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

Software Deployment and Maintenance Training – The Trust Hospital Company (30th November and 1st December 2024)

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

Cybersecurity Awareness Seminar – Parliament House of Ghana (30th September 2023)

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

ICT in Education Workshop – University of Education, Winneba (5th 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).