Accra, Ghana
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SEBASTIAN AKAXOXO

Software Engineer | Technology Builder | Founder

PROFESSIONAL PROFILE

Software engineer, technology builder and educator with a background in Engineering Physics and a strong interest in engineering, emerging technologies and innovation. I am the founder of Xonovate, an integrated technology ecosystem being built around software, education and innovation. I am passionate about solving meaningful problems, exploring new possibilities through technology and building solutions that create lasting value.

EDUCATION

University of Cape Coast: Bachelor's Degree in Engineering Physics (2018 – 2022) | Second Class Upper Division

Zion College of West Africa: General Science (2014 – 2017)

CORE COMPETENCIES

Software engineering: Python, Django, JavaScript, web application development, backend systems and REST API development.

Cloud and delivery: AWS cloud deployment, application configuration, technical coordination and software delivery.

Embedded systems and IoT: Arduino, ESP32, sensors, electronics, device control and robotics.

AI and computer vision: Foundational knowledge of applied AI, machine learning, convolutional neural networks (CNNs), image classification and computer vision.

Technology leadership: Technical project coordination, founder leadership, curriculum development, teaching and learner mentorship.

PROFESSIONAL EXPERIENCE

Project Lead & Software Engineer — Call2Care Solutions Ltd

November 2023 – February 2026 | United Kingdom (Remote)

- Led software development projects, coordinating work between management and engineering teams from planning through implementation and deployment.

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- Designed and developed compliance and care management systems using Django and cloud-based technologies.
- Managed AWS cloud deployments, supporting application performance, security and operational reliability.
- Contributed to system architecture and code quality, and coordinated development activities using tools including Notion and Trello.
- Aligned technical implementation with project requirements and operational needs.

Founder & Technical Lead — Xonovate Technologies

June 2024 – Present | Greater Accra Region, Ghana

- Founded and lead a technology business working across software development, hardware and emerging technologies.
- Develop software solutions and explore practical applications of technology to address real-world needs.
- Lead technical development and coordinate work across software engineering, hardware experimentation and technology education.
- Guide solution development through technical planning, experimentation and project-based implementation.

Founder & Program Lead — Xonovate Code Champions

January 2025 – Present | Greater Accra Region, Ghana

- Founded and lead a practical technology education operation focused on coding, electronics, robotics, IoT, AI and web development.
- Establish and maintain school partnerships to deliver structured, hands-on STEM learning.
- Design and facilitate practical learning activities centred on experimentation, problem-solving and project development.
- Lead learner mentorship and the Xonovate Apprenticeship Program for secondary and university students.
- Established the Founders Cohort and guide learners through practical software and hardware projects.

TEACHING & TECHNOLOGY EDUCATION

Undergraduate Teaching Assistant — Regent University College of Science and Technology

December 2022 – October 2023 | Accra, Ghana

- Supported undergraduate instruction in Python and C++ programming, electronics, linear algebra and office automation.
- Conducted tutorials, graded assignments and provided individual academic support.
- Assisted faculty with practical learning through coding exercises, demonstrations and applied examples.

Mathematics and ICT Instructor — Premier Link College

April 2023 – September 2023 | Accra, Ghana

- Taught Core and Elective Mathematics and Information and Communication Technology to senior secondary students.
- Introduced foundational programming concepts and computational thinking in mathematical problem-solving.
- Provided individual academic support to strengthen students' understanding of STEM subjects.

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Physics Instructor Intern — Wesley Girls' High School

July 2021 – October 2021 | Cape Coast, Ghana

- Delivered Physics lessons and laboratory sessions connecting theoretical concepts with practical experiments.
- Conducted demonstrations and experiments illustrating real-world applications of Physics.
- Supported laboratory preparation and students during WASSCE practical examinations.

SELECTED PROJECTS

HomePilot | ESP32 · Django · Next.js · IoT

Developed a smart-room monitoring and automation system integrating ESP32-based hardware, environmental sensors and connected devices with a software platform. Built the Django backend and Next.js dashboard to support device monitoring and control.

HotelPilot | Django REST Framework · React · PostgreSQL · Hotel Technology

Developing a hotel management platform designed to streamline reservations, guest management, room allocation, check-in and check-out, and hotel operations. The broader system is designed to incorporate RFID/NFC-based access control and smart-room automation.

Animal Classification System | Django · Python · CNNs · Computer Vision

Developed and deployed a Django web application that applies convolutional neural networks to identify animal species from images. Integrated image-classification functionality into a web interface.

Liquid Dispenser System | Arduino · Sensors · Servo Motor · FreeCAD

Built an automated liquid dispensing prototype using Arduino, sensors and a servo motor. Implemented control logic linking sensor input to the dispensing mechanism and applied basic CAD modelling in FreeCAD.

TECHNICAL SKILLS & TOOLS

Programming and application development: Python, JavaScript, C++, Django, web application development

Frontend and web technologies: React, Next.js, HTML, CSS

Backend and data: Django, REST APIs, PostgreSQL, application logic

Cloud and engineering workflow: AWS, Git, deployment, technical coordination, Notion, Trello

Embedded and physical computing: Arduino, ESP32, sensors, electronics, robotics, IoT

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AI and computer vision: Applied AI, CNNs, image classification, computer vision

Design and prototyping: FreeCAD, basic CAD modelling