SAMUEL DESMOND ABBEY DARKO

samueldarko557@gmail.com | +233200910884 | My LinkedIn Account | Portfolio Website

PROFILE

I am a self-taught, highly motivated web and software developer with a passion for merging technology, fashion, and the arts. Currently, I am interested in pursuing Computer Science, with a strong interest in integrating technology with fashion, arts, and business. I am particularly excited about how robotics, AI, and immersive technologies like Augmented Reality (AR) and Virtual Reality (VR) can transform both fashion and the arts—from automating sustainable production to creating immersive digital art and fashion experiences. By combining my passion for technology, fashion, and entrepreneurship, I aim to explore innovative solutions that will reshape creative industries and inspire new forms of artistic expression. I thrive in environments that demand creativity, efficiency, and collaboration. I'm eager to continue leveraging my skills and interests to push boundaries and deliver exceptional results in the tech and fashion-tech industries.

EDUCATION

Opoku Ware Secondary School, Kumasi, Ghana   **September 2018 – September 2021**
Major: General Science
Relevant Coursework: Integrated Science, Elective Mathematics, Physics, English Language, Social Studies

EXPERIENCE

WordPress Developer, Metis Educational Consult, Ghana
July 2023 – September 2023
- Managed "news & articles" and "scholarship" post on the company website.
- Performed SEO which gained over 1,500 new users per month with YoastSEO and Google Search Console.
- Updated websites' UI libraries and UX
- Leveraged Google Analytics to measure real-time user behaviour

Web Developer(Freelance), GieUnifrais, France
November 2022 – February 2023
- Designed front-end portal with basic HTML and SCSS.
- Developed and implemented RESTful APIs using Django Rest Framework, ensuring efficient and scalable endpoints for various application functionalities.
- Created user models and integrated user authentication, including role-based permissions to manage access to different parts of the application.
- Hosted the website on a Linux server using Nginx, implemented SSL for secure HTTPS connections, and configured the server for optimal performance.

RESEARCH

1. Immersive and Interactive Environments: Transforming the Experience of Arts and Fashion through Technology – (Manuscript No: JFTTE-24-151342)
Submitted: **Journal of Fashion Technology & Textile Engineering**

This research highlights the potential of Immersive/interactive technologies to foster inclusivity, promote sustainability, and redefine how diverse audiences experience art and fashion.

Research Paper: Link to paper

2. Sustainable Fashion and Artistic Apparel Design: Innovation at the Intersection of Ecology and Creativity
As sustainability becomes more embedded within fashion, this research explores emerging technologies such as bio-fabrication, advanced 3D printing techniques for zero-waste garment production, and the integration of smart textiles that further reduce environmental impact.

Research Paper: Link to paper

3. Innovative Technologies in Fabric Design: Exploring Micro Robotics and Climate-Active Fibers in Wearable Technology

This paper explores the significance of micro-robotics in enhancing the functionality and aesthetics of textiles, alongside the role of climate-active fibres in promoting sustainability and comfort.

Research Paper: Link to paper

LEADERSHIP EXPERIENCE

- **July 2024 – Present → Chief Executive Officer (CEO), The Art Agora**
- **April 2024 – Present → Chief Executive Officer (CEO), DevGearHub**
- **Jan. 2020 – Sept. 2021 → President, Robotech** (Robotics Club – Opoku Ware School)
- **June 2017 – June 2018 → School Prefect** (Best Scholars Preparatory / JHS School)

ACHIEVEMENTS /AWARDS

CS with VEXcode VR Level 1 – Python Educator Certification	30th September, 2024	VEX Code VR, a subsidiary of VEX Robotics
Certification for hand-work and personal development	30th November, 2019	RiSE by GRAF(Ghana Robotics Academy Foundation)

PROFESSIONAL TRAINING / CERTIFICATION

The Complete Flutter and Dart Guide	15th July - 1st October, 2024	Udemy
Front End Development Libraries Course	22nd February-30th June, 2022	TopCoder

SKILLS AND ABILITIES

- **Personal Development:** Strong interpersonal and problem-solving skills.
- **Spoken Languages:** English, Spanish(Read/Write), Welsh(Intermediate), Akan
- **Programming language(s):** Python, JavaScript, TypeScript, C++, Java, Ruby, Dart, SQL,
- **Programming Framework(s):** Next.JS, React.JS, Django, TailWindCSS, Flask, Kivy
- **Back-End / Hosting Technologies:** AWS, Heroku, Python Anywhere,Vercel, Railway, Firebase, Supabase
- **Database:** MySQL, PosgreSQL, MongoDB
- **Web Technologies:** HTML5, CSS3, Bootstrap4, Semantic UI, Materialize.CSS, SCSS
- **Operating Systems:** Linux, Windows, MacOS
- **API's:** Django Rest Framework, FastAPI

LINKS

Research Papers Folder - Research Papers

Certificates - All My Certifications