MATTHEW ADETOYESE

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RESEARCH INTEREST AND SUMMARY

My research interests are broadly in the interdisciplinary fields of Mobile Computing, Human-Computer Interaction, and Applied AI. My focus has been on AI-powered, interactive mobile/IoT systems embedded in the real world. As a result, I want to research and construct computational platforms with novel interaction, intelligence, and sensibility, fostering first-of-their-kind interdisciplinary applications that pervade our everyday lives.

My research aims to (1) improve our socio-physical well-being (i.e., a healthier social existence in real life, driven by AI-powered, always-available persuasive technologies) and (2) inspire application-driven computing system innovation by deepening new interdisciplinary socio-physical inspirations.

EDUCATION

MSc   Computer Science | Covenant University, Ogun State, Nigeria | Sept 2025 - Present
Concentration: Artificial Intelligence

BSc [Ed.]   Computer Science | Tai Solarin University of Education, Ogun State, Nigeria | Sept 2015 - Nov. 2019
First-class Honours, CGPA   -   4.72 / 5.00
Thesis: Design and Implementation Of A Mobile-based Programming Learning system

RESEARCH AND TEACHING EXPERIENCES

Graduate Research and Teaching Assistant

Computer Science Department, Rivers State University, Nigeria.   Mar. 2020 - Feb. 2021

- Conducted comprehensive security analysis of system implementations to identify vulnerabilities and recommend safeguards.
- Facilitated weekly discussions, tutorials, and laboratory sessions (12+ hours/week), contributing to publications in high-impact journals.
- Co-developed frameworks, tools, and methodologies to enhance software process improvement initiatives.
- Designed and delivered mobile application development training programs for 10+ technical staff, improving departmental capacity.
- Supervised and mentored undergraduate research projects, ensuring methodological rigour and academic quality.

Undergraduate Research Assistant

Computer Science Department, Tai Solarin University of Education, Nigeria.   May 2019 - Nov. 2019

- Collaborated with the Head of Department to refine research outputs, leading to publications in peer-reviewed journals.
- Organised and managed experimental data repositories, ensuring accessibility and integrity for faculty researchers.
- Performed statistical data collection, analysis, and visualisation using MS Power BI to support ongoing studies.
- Conducted field research, gathering and documenting data aligned with project objectives.
- Drafted sections of research reports and assisted in preparing presentations for academic dissemination.

Teaching Assistant

Epic International Schools, Ogun state, Nigeria,   Sept. 2018 - Mar. 2019

- Taught programming and other basic ICT concepts to both science and non-science students, assessed course assignments and exams and provided students with written feedback
- Developed and demonstrated strong presentation and communication skills
- Introduced students to structured query language and Database problem-solving skills using Microsoft Access

PROFESSIONAL EXPERIENCES

Chapel Hill Denham, Ikoyi, Lagos, Nigeria   **Dec. 2022 - Present**
Mobile Engineer

- ❖ Designed and maintained secure, regulatory-compliant mobile applications for finance clients, driving a 70% boost in customer satisfaction.
- ❖ Collaborated with QA engineers, product designers, backend developers, and business stakeholders to deliver projects ahead of schedule and within budget, while reducing defect rates through proactive automated testing and continuous feedback loops.
- ❖ Leveraged advanced DevOps practices (Codemagic, Docker, Firebase, GitHub Actions, Azure DevOps) to streamline CI/CD pipelines, improving deployment efficiency by **75%** and reducing release cycles from weeks to days.

Nitax Technologies, Lagos, Nigeria   **Oct. 2021 - Jan.2023**
Mobile Engineer

- ❖ Developed and maintained mobile applications using Dart and Java within Agile/SCRUM, increasing development speed by 15% and ensuring consistent UI with MVC/MVVM/MVP architectures.
- ❖ Partnered with analysts, QA, and product teams to deliver quality features and fixes, reducing time-to-market by 30% and boosting user retention by 60%.
- ❖ Applied DevOps tools (Codemagic, Firebase, GitHub Actions) to streamline deployment, improving efficiency by 30%.

Esusu Africa Technology Innovation hub, Yaba, Lagos, NG   **Mar. 2020 - Dec. 2021**
Mobile Application Developer

- ❖ Supported the full fintech application lifecycle, from concept and design to testing and release.
- ❖ Designed and developed fully functional mobile apps with clean, bug-free code, deploying to official repositories and stores.
- ❖ Collaborated with product, users, and analysts to plan features and ensure new and legacy applications met quality standards.

SKILLS AND COMPETENCIES

- ❖ **Research & Analytical Skills:** Technical Research, Literature Review, Data Analysis, Academic Writing, Sustainability-focused Research, Emerging Technology Evaluation.
- ❖ **Professional Competencies:** Agile/Scrum, Cross-functional Collaboration, Problem-Solving, Communication, Leadership, Time Management.
- ❖ **Software Engineering:** Go, Dart, Kotlin, Java, Flutter, Android (Native), iOS (Swift basics).
- ❖ **Architecture & State Management:** Riverpod, BLoC, Provider, MVVM, Clean Architecture.
- ❖ **Advanced Mobile Capabilities:** App Flavours, Firebase Remote Config, Push Notifications, Deep Linking, Method Channels (Flutter ↔ Native integration), Secure Storage, CI/CD Automation.
- ❖ **APIs & Integrations:** REST APIs, GraphQL, WebSockets, Payment Gateways, Third-party SDKs.
- ❖ **DevOps & Tools:** Firebase, Codemagic, Docker, Git/GitHub/GitLab, GitHub Actions, Postman, Android Studio, Xcode, VS Code, Figma.
- ❖ **AI & Productivity Tools:** Cursor, ChatGPT, GitHub Copilot, Gemini.

PUBLICATIONS

Journal Publication

Charles, U. E., Eziokwu, P. N., Onyema, E. M., & Adetoyese, M. A. (2020). *Possible ways for enhancing the utilisation of ICTs by educators of tertiary institutions in Enugu State, Nigeria.* **BSU Journal of Science, Mathematics, and Computer Education (BSU-JSMCE)**, pp. 97–101.

Contribution: Developed and implemented computer algorithms to support the research, optimised task prioritisation among collaborators, and contributed to methodological execution.

Undergraduate Thesis

Adetoyese, M. A. (2019). *Design and Implementation of a Mobile-Based Python Programming Language Learning System.*
ORCID: 0000-0002-6291-7055

Contribution: Independently conducted the full research cycle, including data gathering, hypothesis testing, study design, implementation, editing, and final publication.

Technical Articles

Adetoyese, M. A. *Implementing Security Screen Overlay in Flutter Apps.* Dev.to

Adetoyese, M. A. *Custom Error Handling: Avoiding the Grey Error Screen in Production Apps.* Medium

PROJECTS

- ❖ **TrustFund Mobile | Pension Fund Management** – Designed and deployed a secure pension management app, enabling users to track and manage retirement accounts seamlessly. Android | iOS

- ❖ **Duffle | Crypto Payment Platform** – Designed and developed a crypto go-bag app that makes digital currencies as practical as cash. Android | iOS

- ❖ **InvestNaija | Investment Platform** – Built an all-in-one financial app that helps users plan, save, and invest in mutual funds, bonds, and REITs. Android | iOS

- ❖ **PrimaryOffer | Investment Platform** – Revamped and developed an NGX-backed platform for purchasing public offers and rights issues, driving a 75% surge in user engagement. Android | iOS

- ❖ **LiteTrade | FinTech Platform** – Developed a trading app for buying and selling gift cards, airtime, and more. Android

AWARDS AND HONOURS

- ❖ **General Overseer, Gospel Faith Mission International, award** for academic excellence   2021
- ❖ **The Vice Chancellor's award** for the best graduating student in the College of Sciences, TASUED   2019
- ❖ **University Senate award** for the best graduating, College of Sciences, TASUED   2019
- ❖ **University Senate award** for the best graduating student, Department of Computer Sciences, TASUED   2019
- ❖ **University Alumni Award** for the best graduating student in the College of Sciences, TASUED   2019
- ❖ **Award for excellence,** Gofamint Student Fellowship, TASUED chapter   2019

CERTIFICATIONS

- ❖ Coursera MOOC, Pennsylvania University, Aerial Robotics   2021
- ❖ Coursera MOOC, Stanford University, Machine Learning   2021
- ❖ Coursera MOOC, University of Alberta, Canada, Object-Oriented Design   2020
- ❖ Coursera MOOC, Duke University, US, Programming Foundations with JavaScript, HTML and CSS   2020
- ❖ UDEMY MOOC, The Complete Developer Bootcamp   2020
- ❖ UDEMY MOOC, Flutter Development   2020

REFERENCES

Available on Request