

SAMUEL UZOR

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RESEARCH INTERESTS

AI-powered health monitoring systems, wearable sensor data analysis, human-centered computing for personalized health, machine learning for biomedical applications, full-stack system development for intelligent health platforms, robotics control systems, human-computer interaction in healthcare contexts

EDUCATION

Covenant University

B.Eng. in Computer Engineering
2025

Ota, Ogun state

January 2021, August

- **GPA:** First class (4.50/5.00 CGPA)
- **Academic Recognition:** Dean's List (All Semesters), Top 5% of Engineering Cohort
- **Related Coursework:** Data Structures & Algorithms, Machine Learning Applications, Applied Computer Programming, Computer Organization & Architecture, Software Development Techniques, Digital Signal Processing, Networking Protocols, Analog & Digital Electronics, Statistical Methods for Engineers, Database Management Systems

TECHNICAL SKILLS

Programming & Development: JavaScript (ES6+), TypeScript, Python, HTML5/CSS3, SQL, Bash/Shell Scripting, React.js, Next.js, Node.js, Express.js, Redux

Data Science & Machine Learning: NumPy, Pandas, Matplotlib, Statistical Analysis, Data Visualization, Supervised Learning Concepts, Recommendation Systems, Algorithm Evaluation Metrics, JSON Data Processing

Backend, Databases & Cloud Infrastructure: RESTful API Design & Development, Firebase, Supabase, PostgreSQL, MongoDB, JWT Authentication, Vercel, Azure Static Web Apps, CI/CD Pipelines, Docker, Performance Optimization

Design, UI/UX & Research Methods: Figma, Adobe XD, Tailwind CSS, Material UI, Framer Motion, Responsive Design, Accessibility Standards (WCAG), User Testing, A/B Testing, Literature Review, Quantitative Analysis

Development Tools & Project Management: Git/GitHub, Visual Studio Code, Postman, npm/yarn, Agile/Scrum Methodologies, Jira, Notion, Slack, Trello, Sprint Planning, Technical Writing, Data Collection & Analysis

RESEARCH & DEVELOPMENT PROJECTS

Finable: AI-Enabled Educational Crowdfunding Platform | Remote

Lead Developer & System Architect

- Designed and implemented an end-to-end intelligent platform enabling students to raise tuition funding through data-driven campaign optimization, donor matching algorithms, and predictive analytics for campaign success
- Developed secure full-stack architecture with JWT-based authentication, role-based access control (RBAC), real-time database synchronization (Supabase/Firebase), and RESTful API endpoints for campaign management
- Implemented comprehensive CRUD operations for multi-user role management with transaction security protocols, payment gateway integration (Stripe/PayStack), and audit logging systems
- Deployed scalable application to Vercel with CI/CD pipelines and performance monitoring through analytics dashboards, achieving sub-second page load times and 99.9% uptime
- Applied user research methodologies, including stakeholder interviews (n=15), usability testing sessions, and iterative design improvements based on quantitative feedback analysis

Undergraduate Research Assistant | Covenant University Engineering Department

Final Year Capstone Project Lead

- Led a 4-person multidisciplinary team in an original engineering research project under faculty supervision, coordinating weekly progress meetings and literature review sessions
- Conducted systematic literature reviews across 50+ peer-reviewed papers in relevant domain, synthesizing findings into an annotated bibliography and a research proposal

- Developing research methodology, including experimental design, data collection protocols, and statistical analysis plans for empirical validation
- Preparing technical documentation, including research proposal, methodology reports, and final thesis manuscript, following IEEE academic writing standards

Kagearchvs: User Engagement Optimization Platform

Frontend Developer & Data Analyst

- Increased user engagement metrics by 61% through systematic UI/UX optimization informed by Google Analytics event tracking, heatmap analysis, and A/B testing methodologies
- Integrated analytics tracking systems to collect interaction data across 500+ users, enabling data-driven design decisions through statistical significance testing
- Implemented data visualization dashboards for real-time monitoring of user behavior patterns and conversion funnel analysis

TECHNICAL EXPERIENCE

InvestNaira | Remote

Fullstack Developer | March 2024 – January 2025

- Architected and deployed a production web platform using Next.js, React.js, and Tailwind CSS, implementing responsive design patterns, accessibility standards (WCAG 2.1), and performance optimization, achieving 95+ Lighthouse scores through code splitting and lazy loading strategies
- Integrated RESTful backend APIs for dynamic content management with authentication middleware, secure data transmission protocols, state management using Redux, and asynchronous JavaScript patterns for seamless backend integration
- Collaborated within agile development teams participating in sprint planning, daily standups, and code reviews using Git workflows, providing constructive feedback to peers while applying software engineering best practices that reduced bug reports by 30%
- Established comprehensive technical documentation using Markdown and API specification tools, debugged complex frontend issues using browser DevTools and systematic testing methodologies, facilitating knowledge transfer and team onboarding

Google Developers Group (GDG) | Covenant University, Nigeria

Frontend Development Team Member | June 2023 – July 2025

- Developed community-driven applications integrating React components with RESTful APIs, focusing on modular architecture and component reusability
- Participated in 5+ hackathons and collaborative coding sessions, demonstrating ability to rapidly prototype solutions and deliver functional MVPs within 24-48 hour constraints
- Mentored 10+ junior developers through pair programming sessions and technical workshops on modern JavaScript frameworks and Git version control