

# BENEDICT ISAAC

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## PROFESSIONAL EXPERIENCE

Full-stack and AI Developer with a strong engineering foundation in Mechatronics, focused on building scalable, high-performance digital systems across web, AI, and blockchain environments. Experienced in developing production-ready applications, integrating APIs, optimizing system performance, and deploying intelligent workflows in startup settings. Skilled in JavaScript, Sui Move, React, Next.js, Node.js, Python, and AI-driven technologies, with hands-on experience building conversational AI systems, execution agents, and Sui-based decentralized protocols. I bring a builder mindset rooted in system thinking, continuous growth, and collaboration, driven by the goal of creating transparent, trustworthy, and impactful technology that empowers users and developers at scale.

## SKILLS

**CORE TECHNICAL SKILLS:** Frontend Development, Full-Stack Development, Sui Move, RESTful API Integration, Responsive UI Design, Application Performance Optimization, System Integration, Database Management (MongoDB, PostgreSQL), Python Development, Embedded Programming (C/C++), Blockchain & Web3 Development, IoT Systems & Automation

**TOOLS & FRAMEWORKS:** React.js, Next.js, JavaScript (ES6+), TypeScript, HTML5, CSS3, Node.js, Express.js, FastAPI, Tailwind CSS, Git, GitHub, MATLAB, Simulide

**CORE COMPETENCIES:** Problem Solving & Debugging, Software Architecture & Optimization, System Design Thinking, Cross-Functional Collaboration, Agile Development, Technical Documentation

**EMERGING FOCUS AREAS:** Artificial Intelligence (AI), Machine Learning (ML), Large Language Models (LLMs), Conversational AI Systems, Blockchain Integration, Internet of Things (IoT), Mechatronics-Driven Software

## PROFESSIONAL EXPERIENCE

<b>Frontend Engineer</b> <i>Talenxify (ATC Africa)</i>	<b>11/2025 - Current</b> Remote
<ul style="list-style-type: none"><li>Contributed to the core platform infrastructure as part of the full-stack engineering team, supporting scalable, and reliable application operations.</li><li>Built and maintained front-end features using React and Next.js, ensuring responsive, high-performance user interfaces.</li><li>Integrated and consumed backend APIs to enable seamless data flow and real-time application functionality.</li><li>Improved application performance and page load efficiency, enhancing overall user experience, and system responsiveness.</li><li>Streamlined user onboarding flows, reducing friction, and improving platform accessibility for new users.</li><li>Collaborated closely with engineers and product stakeholders to deliver features aligned with startup timelines and evolving requirements.</li></ul>	
<b>Team Lead &amp; Full-Stack Developer</b> <i>Sui On Campus(Team Suirify)</i>	<b>10/2025 - Current</b> Minna, NG

- Designed and implemented highly interactive user interfaces for web applications using modern front-end frameworks, increasing user engagement by 30%.
- Collaborated cross-functionally with product owners, designers, and technical teams to translate requirements into features, accelerating delivery timelines by 20%.
- Led UI structure, layout decisions, and content presentation across multiple pages, ensuring consistent branding, clarity, and user-centered design.
- Improved front-end scalability and maintainability by adopting reusable components and cleaner architecture patterns across projects.
- Actively upskilled in emerging technologies and frameworks, applying new techniques to improve development efficiency and long-term code quality.

<b>Frontend Developer &amp; Protocol Team</b> <i>GDG Minna DevFest</i>	<b>11/2025 - 11/2025</b> Minna, NG
<ul style="list-style-type: none"><li>Built and deployed a responsive DevFest event website, integrating the registration flow, agenda, and speaker profiles, improving event information accessibility and user navigation.</li><li>Developed interactive schedule and speaker components using modern front-end practices, increasing attendee engagement and session discovery.</li><li>Optimized frontend performance and accessibility for cross-device compatibility, ensuring fast load times, and an inclusive user experience.</li><li>Collaborated with designers and backend contributors to deliver production-ready features within tight event deadlines.</li><li>Supported event operations and protocol coordination, ensuring smooth communication between organizers, speakers, and attendees.</li><li>Participated in post-event reviews, contributing feedback insights that were used to improve future community events.</li></ul>	

- Organized and delivered interactive technology programs introducing students to IoT, embedded systems, and coding fundamentals.
- Facilitated hands-on workshops and mentorship sessions for 50+ students, strengthening problem-solving skills and technical curiosity.
- Collaborated with educators and team members to design structured STEM learning activities aligned with educational objectives.
- Guided students through project-based learning using real-world engineering examples, improving comprehension and engagement.
- Contributed to building a youth-focused innovation community promoting technology awareness and early skill development.

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## PROJECTS

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**Suirify | Sovereign Identity Protocol**

Architected a zero-knowledge digital identity system on the Sui blockchain, allowing users to verify identity attributes without exposing sensitive personal data.

**Tech Stack:** Sui Move, TypeScript, Zero-Knowledge Proof Concepts, Nautilus

**Key Impact:** Introduced reusable digital credentials for compliant DeFi applications and secure decentralized identity verification.

**SuiSense (In Development)**

Building an AI-powered interpretation layer on the Sui blockchain that translates raw transaction and smart contract execution data into clear, human-readable explanations.

**Tech Stack:** Sui Blockchain, Sui Move, Python, LLMs, Sui Execution Data

**Key Impact:** Demonstrates an intelligent explanation layer for real Sui transactions, improving on-chain transparency, user trust, and developer understanding of Move-based execution.

**HaloAI Agent | AI-Powered Customer Relations Management System**

Developed an AI-driven WhatsApp copilot for MSMEs, enabling conversational order management, automated customer support, and CRM workflows across messaging platforms.

**Tech Stack:** FastAPI, Python, LLMs (Llama 3), Twilio WhatsApp, Meta WhatsApp Cloud API, Webhooks, PostgreSQL

**Key Impact:** Delivered human-like customer interactions, automated order processing, and scalable multi-channel messaging with privacy-first data handling.

**Tenax | AI Execution & Accountability Agent**

Built an AI-powered execution agent designed to convert personal goals into measurable daily actions through persistent behavioral tracking and accountability workflows. Tenax transforms high-level resolutions into structured tasks, enforces follow-through via WhatsApp automation, and evaluates system effectiveness using observability-driven feedback loops.

**Tech Stack:** Python, LLMs (Llama 3, Gemini, OpenAI), Opik, Node.js, JavaScript, React, Supabase

**Key Impact:** Enabled continuous goal execution, real-time accountability, and data-driven performance evaluation for behavior optimization systems.

**Solar Charger Controller (Simulation)**

Designed and simulated a solar charge controller system focused on efficient battery charging and power regulation using control logic principles.

**Tech Stack:** MATLAB, Simulink, C++

**Key Impact:** Demonstrated applied mechatronics concepts in renewable energy systems, control simulation, and hardware-software interaction.

**Flux (In Development) | Product Launch Operating System**

Developing an intelligent launch coordination platform to help startups and creators plan, schedule, and track product rollouts from pre-launch to execution.

**Tech Stack:** Next.js, TypeScript, Node.js, Tailwind CSS

**Focus:** Workflow automation, analytics, and real-time collaboration.

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## CERTIFICATIONS & TRAININGS

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**Sui Nigeria Developers Workshop (Certificate)**

*Certificate in Full-Stack Development, Frontend Masters*

**Meta AI Developer Academy Graduate, RAIN**

**MATLAB & Simulink Certified, Mathworks**

**IoT & Embedded Systems Training, ESIRG**

**DeepTech Computer Vision Program, 3MTT**

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## EDUCATION

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**Bachelor Of Engineering (BEng): Mechatronics Engineering**

*Federal University of Technology Minna*

**Expected in 12/2027**

*Minna, NG*