Profiles	© Lagos, Nigeria. & <u>+2347026144203</u> @ <u>chukssomzzy@gmail.com</u> in <u>Chukwuma Somtochukwu</u>	
	X chuks_somzzy Chukssomzzy	
Summary	Software Engineer with Mechatronics foundation, specializing in distributed systems a high-performance backend architectures. Led development of mission-critical applicate processing 10,000+ daily transactions across IoT, legal tech, and fintech domains. Demonstrated expertise in optimizing system performance by up to 70% through microservices architecture and efficient algorithms. Core technical proficiency include Python, AWS, Docker, and C++, with proven track record of reducing deployment times 60% through containerization. Passionate about architecting scalable solutions that bring hardware and software domains while maintaining 99.9% system reliability.	tions es s by
Experience	1worq Re	emot
	Backend Engineer (python) https://1worq.com Engineered 20+ GraphQL mutations reducing task management workflow time by	45%
	 for 100+ legal professionals Implemented RBAC system with 5 role hierarchies, ensuring 100% compliance with 	th
	 legal data access protocols Developed real-time messaging system with Redis pub/sub handling 10,000+ daily communications with <100ms latency 	7
	 Optimized S3 file management system reducing upload times by 60% and storage by 35% 	costs
	• Achieved 95% test coverage with 200+ unit tests and 50+ integration tests using py Tech stack: Python, GraphQL, Docker, AWS (ECS, S3), PostgreSQL, Redis, Docker Compo	
	Cardioll Lead Engineer	Onsit
	 Architected and led development of IoT heart monitoring system achieving 98% accuracy in detecting arrhythmias Reduced data processing latency by 70% through optimized C++ algorithms, achieving 100 ac	ving
	<50ms response time for critical alerts • Implemented real-time anomaly detection achieving 95% sensitivity for irregular	8
	heartbeat patterns Tech stack: C++, Python, Javascript, Firebase	
	paywifigo backend engineer https://paywifigo.me/	emot
	 Engineered a PHP-based business analytics dashboard that reduced financial reportime by 60% for 50+ merchants 	ortin
	 Implemented 8 interactive data visualization modules tracking revenue, expenses, profit margins in real-time 	, and
	 Designed and developed 5 key user workflows resulting in 30% improvement in merchant task completion rate Tech stack: PHP, MySQL, JavaScript, HTML/CSS, Bootstrap 	
		emot
	https://github.com/hngprojects/hng_boilerplate_python_fastapi_web/ FastAPI Boilerplate - Contributor	
	 Architected and implemented TOTP-based 2FA authentication system, enhancing security for 1000+ potential users 	
	 Developed 6 RESTful endpoints for team management with role-based access cont increasing project functionality by 25% Integrated industry-standard TOTP algorithm compliant with RFC 6238 	roi,
	Contributed 1000+ lines of production code and resolved 8 high-priority issues Tech stack: Python, FastAPI, PyOTP, Base32, HMAC-SHA1	
Education	Federal University Of Technology Owerri August Mechatronics Engineering	 201
	Methatromes Engineering	t 202
	Software Engineering https://www.alxafrica.com/	
Projects	Youtube Summarizer Transcribe and summarize a video https://tifi.tv/youtube-summarizer	
	Langchain, Openai, AI, FastApi, Celery (Queuing system) Talking GPT	
	Full Stack AI Chat Application https://github.com/abimbola-michael/Talking-GPT	
	 Collaborated on an AI application to add a talking feature to an existing AI chat application. Developed using Git, Node.js, Express, OpenAI, and React. 	
	 Implemented voice integration to enhance user interaction and provide a unique to Coordinated with team members to ensure seamless integration and functionality. 	
	• Utilized agile methodologies for efficient project management and delivery. Nodejs, expressjs, Vitejs, mongodb, moongoose	
	File Manager A file storage API A https://github.com/abimbola-michael/alx-files_manager	
	 Developed a file-sharing application using Express, MongoDB, and Redis. Implemented user authentication and authorization for secure access control. 	
	 Conducted testing to ensure functionality and reliability. Utilized Redis for efficient caching and improved performance. 	
	redis, mongodb, pagination, unit and integration testing, Queuing System, Background Processing Cheaper Phone	
	An ecommerce application https://github.com/chukssomzzy/cheaper_phone Designed the architecture and database using a top-down approach.	
	 Developed an e-commerce application with Flask, jQuery, Docker, and Docker Com Deployed on Ubuntu VM with Nginx and managed services with systemd. 	ıpos
	• Implemented RESTful APIs, database integration, and dynamic frontend updates. Api Design, Flask, Docker, Containerization, Docker-compose, sqlalchemy, jquery, html templating	
	Simple Shell A clone of the bash terminal in C https://github.com/chukssomzzy/simple_shell	
	c, terminal emulator, bash, multiprocessing Monty	
	A simple stack based interpreter in c https://github.com/chukssomzzy/monty	
Technical Skills	queues, stack, intepreter, bytecodes Programming Languages	
	python, Javascript, C, C++, PHP Web Frameworks	
	Databases Mangadh MySOL postgraSOL sglalahamy	
	Mongodb, MySQL, postgreSQL, sqlalchemy Devops Docker, Ubuntu VM machine, CICD, github workflow	
	Docker, Ubuntu VM machine, CICD, github workflow Version Control Git, github	
	Embedded System Embedded system develoopment	
Skills	c++, c programming, esp, arduino, microcontrollers Leadership	
	Leadership skill	
	roject management Team management • • • • •	
	Communication	
nterests	Embedded System Blockchain Technology	
ertifications	HNG Internship Certificate July	202
	HNG https://certgo.app/c-e4aa72c0	
	ALX Software Engineering Certificate https://alxafrica.com https://intranet.alxswe.com/certificates/z6pxNFYXTJ	. 202
	Mechatronics Engineer Feb 2018 - Federal University Of Technology	202
	West African Senior School Certificate Examination (WASSCE) West African Examinations Council (WAEC)	201
	English	