FUAD OLATUNJI

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PROFESSIONAL EXPERIENCE

OANDA Coinpass Limited, London, UK   Apr 2022 – Present
Software Engineer

- **Revolutionised application architecture:** Spearheaded the transformation of a monolithic internal admin application, originally written in React.js and Node.js hosted on a single server, into a serverless application using AWS serverless ecosystem. This achievement resulted in remarkable outcomes:
  - Achieved 100% uptime for the application.
  - Reduced page load times by a staggering 10-fold.
  - Slashed backend response times by an impressive 20-fold, leveraging the efficiency of serverless architecture.
- **Enhanced internal admin application monitoring:** Successfully implemented a robust operations monitoring system for the internal admin application using AWS serverless technologies, including AWS Lambda with Node.js, AWS API Gateway audit logging, and AWS DynamoDB for storage. This transformative initiative led to significant benefits:
  - Significantly improved the ability to trace and identify the administrators responsible for changes, saving valuable time and enhancing accountability.
  - Achieved near-instant detection of unauthorised access or compromises, bolstering system security and resilience.
- **Revamped pricing chart architecture for client trading:** Transformed the pricing chart infrastructure, replacing a manual Redis time series hosting with AWS Timestream, a serverless solution offering automated backups. This architectural enhancement yielded impressive results:
  - Achieved an outstanding 90% uptime for pricing charts, ensuring uninterrupted access for traders.
  - Eliminated the need for manual maintenance, streamlining operations and reducing administrative overhead.
  - Slashed operational costs by a remarkable 40% compared to the previous Redis-based solution, optimising resource utilisation and enhancing cost-efficiency.
- Spearheaded the successful transition of applications from Windows servers to ECS Fargate, leveraging Terraform and Bash for infrastructure and deployment automation; achieved a 50% reduction in server maintenance effort and increased scalability by 60%.

Textury, Delaware, US   Sep 2021 – Sep 2022
Core Software Engineer

- **Balanced developer and support roles:** Actively engaged with the developer community by promptly addressing issues and providing assistance on npm packages and CLI tools through Discord and GitHub issues, showcasing my hands-on expertise as a Node.js developer. This commitment to developer support resulted in:
  - Achieving an impressive resolution time for issues, enhancing user satisfaction.
  - Establishing a reputation for excellent developer support, contributing to positive user experiences and trust in Textury's products.
- **Development Maverick:** Played a pivotal role in the development and documentation of arkb, a versatile Command Line Interface tool for seamless file uploads to the Arweave blockchain, and arlocal, a portable mock of the Arweave blockchain that requires no external setup. Key achievements include:
  - Swift integration of user requests, enhancing tool functionality.
  - Rapid bug resolution, ensuring the reliability of Textury's tools.
  - Agile development process, resulting in continuous improvements to arkb and arlocal.
- **Pioneered developer tool:** Developed the arlocal-sweets package from the ground up, providing an intuitive solution to effortlessly interact with arlocal or any Arweave test network. This TypeScript-based package effectively addressed the challenge of recalling API endpoint names and HTTP verbs specific to test networks, including mining and faucet endpoints unique to testnets.

- **Ensured robust testing:** Implemented unit tests for Textury's tools using Jest and supertest. This critical quality assurance effort guaranteed backward compatibility of existing features with every new feature or bug fix release, preserving Textury's reputation for reliability and robustness.

ZSolutions Limited, Lagos, NG   Jul 2021 – Mar 2022
Backend Engineer
- **Led development of multiple Node.js microservices:** Spearheaded the development of a suite of four Node.js microservices, each seamlessly interfacing with a MongoDB database. This leadership role involved:
  - Providing extensive Swagger documentation to streamline frontend engineer integration, ensuring efficient and smooth communication.
  - Supplying comprehensive architecture documentation, simplifying understanding and facilitating deployment for the devops engineer.
- **Enhanced server stability:** Implemented robust error handling mechanisms, preventing unexpected server crashes and logging errors to temporary files. Additionally, introduced crash handlers that autonomously restart and recover the server in the event of a widespread server crash. These initiatives resulted in an impressive 99% uptime, ensuring consistent and reliable service availability.
- **Achieved rapid promotions:** Demonstrated exceptional consistency, fast-paced work, and consistently high-quality contributions, earning three promotions within a short timeframe. These achievements reflect my commitment to delivering outstanding results and driving continuous improvement at ZSolutions Limited.

Innovation Associates Nig. Ltd., Lagos, NG   Dec 2020 – Jun 2021
Software Engineer
- **Led Website Development Project:** Took charge of spearheading the development of the company's website, collaborating with an outsourced designer with the company's approval. Crafted an eye-catching website that effectively showcased the company's products and services to potential customers. This website was meticulously built using React.js, with the backend for the contact form powered by AWS Lambda running Node.js. These leadership efforts yielded several notable achievements:
  - **Increased Client Engagement:** The website attracted more potential and eventual clients, with a significant influx attributed to the user-friendly contact form.
  - **Enhanced SEO and Visibility:** Implemented optimizations that improved the website's SEO and indexing on Google Search Console, ensuring better visibility in search results.
  - **Client Commendations:** Received commendations from existing clients, acknowledging the impressive web design and user experience, reflecting positively on the company's image.

EDUCATION

AltSchool Africa, Kigali, RW   Jun 2023
Diploma in Backend Engineering.

Lagos State University, Lagos, NG   Feb 2022
Bachelor's of Science in Electronic and Computer Engineering.

PERSONAL PROJECTS

NodeLayer, nodelayer.xyz   Jan 2023
Product Owner
- **Web App Development and Maintenance:** Developed and currently maintain nodelayer.xyz, a web application designed to streamline the process of generating layers for AWS Lambda functions running Node.js. The project emphasises compatibility with the developer's choice of AWS Lambda runtime by utilising Amazon Linux 2 docker images. The architecture embraces the AWS serverless approach and ecosystem, comprising a Golang backend, an API gateway backend managed by AWS Lambdas running Node.js, and a Next.js frontend. These efforts resulted in several notable achievements:
  - **Personal Time Savings:** Significantly enhanced personal productivity by saving valuable time when generating layers for AWS Lambda projects, reflecting the project's practical utility.

- ○ **Validation of Utility:** Received a generous donation from a fellow developer accompanied by a message expressing gratitude for the tools provided and the time-saving benefits they offered. This donation serves as tangible proof of the project's value to the developer community.
- ○ **Widespread Adoption:** Facilitated the generation of over 200 layers using the project, indicating its widespread adoption and effectiveness in simplifying complex processes for developers.

VOLUNTEER EXPERIENCE

MSSN LASU Epe, Lagos, NG   Jul 2022 – Apr 2023
Devops Engineer
- ● **Efficient Website Migration:** Successfully migrated the establishment's website from CPanel shared hosting to AWS S3 + CloudFront hosting, effectively transforming it into a Content Delivery Network (CDN). This seemingly straightforward migration yielded impressive achievements:
  - ○ **Accelerated Website Load Times:** Leveraged the caching capabilities of CDNs, resulting in significantly faster website load times and enhanced user experiences.
  - ○ **Improved Traffic Handling:** Addressed traffic-related issues encountered with CPanel shared hosting by implementing a more robust and scalable AWS hosting solution, ensuring smoother performance even during high traffic periods.
  - ○ **Streamlined Deployment with Terraform:** Implemented Terraform for faster and more efficient deployment processes, enhancing agility and reducing deployment times.
  - ○ **Cost Savings:** Achieved a remarkable 90% cost savings for the establishment through the migration, optimising hosting expenses without compromising on performance or functionality.
- ● **Strategic Backend Migration:** Spearheaded the strategic migration of the backend infrastructure to AWS ECS Fargate, leveraging the FARGATE_SPOT capacity provider to optimise costs and enhance operational efficiency. This initiative delivered a remarkable cost reduction of 70%, showcasing my ability to drive impactful cost-saving measures while ensuring system efficiency and performance.

Sendchamp Inc., Lagos, NG   Jul 2021 – Jun 2022
Developer Program Member
- ● **Developer Tools Creation and Contributions:** Demonstrated versatility by conceiving and publishing multiple developer tools, including API wrappers in JavaScript/TypeScript and Go programming languages, as well as a simulator for local testing of Sendchamp's SMS service. Actively contributed to the company's GitHub repository, addressing issues, and providing code samples to resolve bugs in example repositories. These efforts collectively constituted an extensive SDK for Sendchamp developers, complete with comprehensive documentation for each tool and resulted in several noteworthy achievements:
  - ○ **Company Recognition:** Earned recognition from the company through social media acknowledgments, receipt of company swag, and direct communication and support from the company's Developer Advocate.
  - ○ **Enhanced Developer Experience:** Improved the overall developer experience by facilitating seamless integration with Sendchamp APIs, streamlining development processes, and boosting efficiency.
  - ○ **Popular JavaScript API Wrapper:** The JavaScript API Wrapper achieved significant popularity, with an average weekly download rate exceeding 100. These accomplishments reflect my commitment to enhancing developer tools and contributing to a thriving developer community.

SKILLS

- ● JavaScript
- ● Go
- ● AWS
- ● Docker
- ● SQL
- ● NoSQL
- ● Node.js
- ● React.js