

KELECHI IBEKWE

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PROFESSIONAL SUMMARY

Software Engineer with 2+ years of experience in backend development, specializing in building high-performance applications using SpringBoot, NodeJS, and python. Skilled in solving complex challenges and optimizing system scalability, reliability, and security.

EXPERIENCE

Software Engineer

2022 - Present

TD Bank

Canada

- Accomplished integration of fractional shares, enabling TD bank to be the first major Canadian bank to offer this feature, by updating **Java** applications, thoroughly testing outputs to meet standards, and implementing feature flags for controlled rollout
- Enhanced **Python** application by integrating data from a new source, resulting in a 25% increase in actionable insights for traders, improving decision-making efficiency
- Utilized advanced data processing techniques within an **ETL** architecture to reduce data processing time to under 5 minutes, improving the efficiency of handling large-scale datasets and increasing project automation by 40%
- Transformed a stateful **Spring** application to a stateless architecture on Azure, utilizing Redis for improved scalability, increasing performance by 40%
- Optimized **Spring** application performance by 70% through the integration of a cache manager, decreasing load times and enhancing user experience

Software Engineers

2024

Personal Projects

Canada

Daily Journal AI – [Daily Journal Repo Link](#)

- Developed a journaling assistant using **flask**, **GPT-4** and embeddings for semantic search, generating context-aware prompts with short-term memory tracking
- Integrated **PostgreSQL** with pgvector to store journal entries as embeddings, enhancing long-term memory retrieval for personalized recommendations
- Implemented natural voice synthesis using Eleven Labs API, allowing users to interact with the application through high-quality, natural-sounding audio prompts.

Data Privacy Vault – [Data Privacy Vault Repo Link](#)

- Engineered and implemented a comprehensive **NodeJS** data privacy solution utilizing tokenization and AES encryption, resulting in a 40% increase in data security and scalability metrics.

CORE COMPETENCIES

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|--------------|----------|---------------|
| • Java | • Docker | • Spring Boot |
| • Python | • NextJS | • NodeJS |
| • JavaScript | • Redis | • Flask |

EDUCATION

Masters in mechanical engineering

2022

University of Calgary, Canada

Bachelor in mechanical engineering

2018

Afe Babalola University, Nigeria