

# KELECHI IBEKWE

Calgary, AB | [www.kelechiibekwe.com](http://www.kelechiibekwe.com) | +14034001332 | [kelechiibekwe@outlook.com](mailto:kelechiibekwe@outlook.com)

## PROFESSIONAL SUMMARY

---

Software Engineer with 2+ years of experience in backend development, specializing in building high-performance applications using Spring, NodeJS, and python. Skilled in solving complex challenges and optimizing system performance, 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 100+ Java programs, thoroughly testing outputs to meet standards, and implementing feature flags for controlled rollout
- Led the migration of applications from an end-of-life server to new server, improving system performance by 30%
- Resolved complex technical issues for a variety of assigned projects involving technologies like redis, airflow ETL pipeline, NodeJS, achieving over 97% customer satisfaction rate
- Implemented SEC-mandated code changes to reduce trade settlement time from T+2 to T+1 6 months ahead of schedule, ensuring regulatory compliance
- Improved Python codebase by consolidating multiple feature branches, increasing code modularity, implemented test cases, and streamlined the deployment process, resulting in a 40% faster deployment cycle

### 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

---

- |              |          |               |
|--------------|----------|---------------|
| • 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