

Kelechi Ibekwe | Full-Stack Software Engineer

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HIGHLIGHTS

- **3 years of experience** building modern full-stack applications with **Java, React.js, Node.js and Python**
- Delivered solutions at TD Bank, including fractional share trading (first major Canadian bank to launch), a multithreaded file-archiving framework with 460x performance gains, CI/CD pipelines that increased Python test coverage to 80% and reduced production bugs by 50%.

PROFESSIONAL EXPERIENCE

TD Bank

Full-Stack Software Engineer | Calgary, AB | December 2022 - Present

- Drove critical application changes to support fractional shares trading, **positioning TD as first major Canadian bank to offer this feature**. Updated **100+ Java** backend services and **SQL stored procedures**, with comprehensive testing to ensure compliance and reliability
- Developed a frontend and backend system for generating and delivering financial reports to clients. Utilized **React.js** for frontend development and **Node.js** to design robust REST API endpoints, ensuring secure and efficient data handling. Reduced manual effort by **40%** and improved data processing efficiency by **35%**
- Built a **Spring Boot application** to standardize financial report generation, using design patterns for scalable architecture. Delivered on time through close collaboration with developers, reducing manual formatting errors by **35%**, creating documentations which improved long-term maintainability
- Increased **Python** test coverage from **0% to 80%** by implementing unit tests and SonarQube integration. Implemented CI/CD pipeline with automated testing and deployment, significantly reducing bug reports by **50%** and ensuring compliance with company standards
- Enhanced **Node.js application** security by resolving injection vulnerabilities and updating dependencies. Utilized static code analysis and tools to identify and mitigate threats. Resulted in a **30% reduction** in security vulnerabilities
- Developed a **Java-based**, multithreaded file-archiving framework, leveraging zero-copy I/O and rigorous benchmark testing to identify the most efficient transfer method, that delivered a **460x performance improvement**

ADDITIONAL PROJECT

Storyline (AI enhanced journaling app)

- Engineered backend systems leveraging **Python and Flask** to manage user-generated content and AI-driven features. Designed and implemented RESTful APIs, facilitating seamless communication between frontend interfaces and backend services
- Developed responsive and accessible frontend interfaces using **Next.js (React.js) and TypeScript**, employing modern development practices such as component-based architecture and react design patterns, to enhance performance and user experience
- Integrated third-party services to enhance functionality, including AI-generated podcast content and audio processing. Managed relational databases using **postgres**, optimizing query performance and ensuring data integrity, which reduced average query response time by approximately **30%**

EDUCATION

University of Calgary, Calgary AB, Canada

Master of Engineering in Mechanical Engineering

SKILLS & TECHNOLOGIES

Java, SpringBoot, JavaScript/TypeScript, React.js (Next.js), Node.js, Python, Flask, PostgreSQL, TailwindCSS