# Eric C Chiruka

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## Skills

**Languages & Tools:** Java, TypeScript, Git, Linux, npm, Yarn, Docker, Oracle DB, PostgreSQL, H2DB
**Frameworks/Libraries:** Spring Boot, React, Angular, Mockito, JUnit, TestNG, Jest, Vitest, Testcontainers

## Experience

**Software Engineer -** NatWest (Remote)                                    Jan 2024 – Present
- Implemented per-environment feature toggles to conditionally enable features based on deployment context
- Refactored legacy code, resolved security vulnerabilities, and improved code quality for easier maintenance
- Mentored junior developers on unit testing, helping them meet test coverage requirements
- Improved accessibility of a React app, as measured by tools like Evinced and verified via screen readers (NVDA, Narrator) and keyboard navigation, by applying accessibility best practices
- Increased test coverage by simplifying scheduler implementation, improving their testability

**Software Engineer -** FDM Group (Client: NatWest, Remote)            Sept 2021 – Jan 2024
- Improved microservice logging by adopting structured, consistent logging practices, reducing debugging time
- Created a Python script to simplify microservice management, reducing time spent on manual command execution
- Increased microservice code coverage to over 90% by developing extensive unit tests
- Collaborated in a globally distributed team environment with cross-functional developers

## Projects

**Spring Security App**
- Full-stack app using Spring Boot, React, Spring Security (with JWT and cookie-based auth), and Docker (PostgreSQL, pgAdmin)
- DAO implementations using JPA, JDBC, and in-memory lists
- Integrated email notifications for registration and password reset events
- Custom Spring Security configuration with cookie-based authentication
- Tested using JUnit (unit) and Testcontainers (integration)

**Cebo.ooo**
- Personal website built with HTML, CSS, JavaScript; uses Prism for syntax highlighting
- Python scripts for minification, cache busting, link validation, and templating reusable HTML elements

**NixOS Configuration**
- Flake-based NixOS setup for multiple hosts using home-manager
- Includes support for overlays, custom modules/packages, and LUKS-encrypted ext4 partitions
- Provides reusable configurations for hosts and users

## Education

**University of South Wales –** MComp Computer Science                            Aug 2020