

## HADIJAH KYAMPEIRE

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<https://www.linkedin.com/in/hadijahkyampeire/> • [Portfolio](#)

### REACT TYPESCRIPT SOFTWARE ENGINEER

Experienced software engineer with 6 years of professional experience designing, building, and optimizing high-performance web applications using React, Typescript, NextJS, Node.js and the modern JavaScript ecosystem. Skilled in delivering solutions in FinTech and Health care, with a strong focus on clean, modular code and modernizing legacy systems for better performance and maintainability. Good at communication and teamwork in Agile environments, while also taking ownership to move projects from idea to completion.

- Microservices Architecture • State Management • API Integration • Web Application Optimization • Cloud-based Infrastructure and deployment • Version Control • Continuous Integration/Continuous Delivery (CI/CD)

**Languages:** JavaScript, TypeScript, Java, Python, SQL

**Web:** React, React Native, HTML, CSS, Tailwind, Node.js, Redux, Zustand, RTK Query, Playwright, Cypress, Enzyme

**Web Services:** REST API, Swagger

**Frameworks:** NextJS, Expo, Express, Angular, Spring Boot, Flask

**Databases:** PostgreSQL, MongoDB, Firebase

**Design Patterns:** Component-Based Architecture, Higher-Order Components, Context + Provider, Micro Frontends

**SDLC:** Agile, Scrum, Test-Driven Development (TDD), Behaviour-Driven Development (BDD)

**Tools:** Redux DevTools, ESLint, Webpack, Visual Studio, IntelliJ IDEA, JIRA

**Platforms:** MacOS, Windows, Heroku, AWS (Amazon Web Services)

### PROFESSIONAL EXPERIENCE

**SKYE, New York, USA (Remote) • 05/2024 – 09/2024**

#### Senior Software Developer

- Implemented session scheduling functionality and interactive charts with , Node.js, Data-Grid, Material UI, React and Recharts, enabling dynamic visualization of coaching reviews.
- Increased test coverage to 90% with React Testing Library, reducing regression bugs and strengthening release confidence.
- Established CI/CD pipelines with GitHub Actions, automating build, unit, integration, and E2E test workflows prior to deployment.
- Optimized backend performance and reduced latency by streamlining service-layer logic leveraging SQL, Firestore and BigQuery.
- Collaborated with cross-functional teams in an agile SDLC, including backlog grooming, story prioritization, and peer code reviews, ensuring clean and efficient delivery.

**Technologies Used:** Node.js, Firestore, React, Big Query, Typescript, Re-charts, Material UI, RTL

**ANDELA – Client - Sigma360, New York City, USA (Remote) • 10/2018 – 04/2024**

#### Senior Software Engineer (06/2020 – 04/2024)

Built an intelligent web software to power smarter risk decisioning in huge financial institutions like Stripe.

- Engineered a risk analytics dashboard using React, AntDesign, ReactPDF, and ChartJS, reducing data analysis time by 35% through visualization of key entity risk metrics.
- Led a proof of concept for large-scale graph-driven risk network rendering using Cytoscape + Neo4J, cutting costs with open-source tools and boosting product competitiveness by 40%.
- Developed **Jest + Enzyme** test suites to verify critical user flows, reducing regressions and ensuring stable feature releases.
- Modernized the testing strategy by migrating legacy **Enzyme** tests to **React Testing Library** and introducing **Storybook** for component isolation, improving test reliability, developer productivity, and early defect detection.
- Modernized the Sigma web app, migrating from **Redux to Zustand** and integrating TanStack Query for intelligent caching and background data updates, improving code quality and reducing UI development time by 25%.
- Mentored team members through code reviews and pair programming, ensuring consistent code quality.

#### Software Engineer (10/2018 – 05/2020)

- Developed a standalone entity risk rating app using ReactJS, Redux, and SASS, standardizing code practices and enabling automation that boosted analyst productivity by 70%.

- Integrated Google Analytics into the Sigma360 web platform to track user interactions, achieving data-driven feature prioritization. This improved user engagement insights, increasing feature adoption within six months.
- Designed reusable UI components for the risk rating interface using ReactJS and, achieving enhanced visual consistency and user experience. This reduced UI development time by 20% for subsequent feature additions.

**Technologies Used:** *JavaScript, React, Ant Design, ChartJs, React PDF, SASS, TanStack Query, Redux, Zustand.*

## **ANDELA UGANDA LIMITED, Kampala, Uganda • 12/2017 – 09/2018**

### **Software Engineer**

- Led the development of the Open Concept Lab, a standalone full React app using Material UI, delivering a robust and maintainable interface for managing medical concepts within OpenMRS.
- Implemented Test-Driven Development (TDD) with Jest and Enzyme, achieving up to 100% test coverage and reducing regressions across the application.
- Built and deployed end-to-end applications using React.js, Axios, Bootstrap, Node.js, Java Spring and Python Flask, integrating CI/CD pipelines via GitHub Workflows to automate testing and deployment.
- Participated in technical interviews and bootcamps, mentoring and onboarding new developers through code reviews and pair programming.

**Technologies Used:** *React, Typescript, Bootstrap, Java, Python, Flask, Django templates, Enzyme and Material UI.*

## **OPEN-SOURCE EXPERIENCE**

### **OpenMRS, Carmel, Indiana (Remote) • 11/2020 – 08/2023**

OpenMRS is a community-developed, open source, enterprise electronic medical record system platform.

#### **Frontend Software Engineer**

- Developed a stock management module to help health facilities track inventory and manage drug dispensing efficiently using React, Typescript and Java Spring Boot.
- Added multilingual support to OpenMRS EMR system with react-i18next, increasing adoption by 35%.
- Built a reusable JSON schema-based UI framework for the clinical views with React to ease customization.
- Developed schema validation and drag-and-drop features for a clinical form builder, cutting form creation time by 40% and enabling use without JSON expertise.
- Implemented Cypress end-to-end tests, simulating user interactions to streamline **QA** and reduce reliance on manual testing.

**Technologies Used:** *React, Angular, Typescript, Java, SWR, Carbon Design, React-i18next, React Hook Forms, JSON.*

## **ACADEMIC PROJECTS**

### **Maharishi International University (2025)**

- **Property Management System:** A full-stack property management app built with Java, Spring Boot, ReactJS, Material UI and Redux Toolkit, with property liking, admin activation/deactivation, and image uploads to AWS S3.
- **TicTacToe:** Real-time two-player [game](#) built with React and Node.js, deployed on AWS Serverless (Lambda, API Gateway). Utilizes WebSockets for live gameplay, with CloudWatch monitoring and logging.

## **PERSONAL PROJECTS**

**E-Learning Platform (2025):** A multi-tenant learning system built with React, TypeScript, RTK Query, and Material UI, featuring secure JWT authentication, and role-based access to private routes to handle course management.

**Kids Learning App (2025):** A full-stack [web application](#) delivering quizzes, stories, and challenges for children. Built with React, React Native, Vite, TypeScript, Node.js, Express, and AWS Serverless (Lambda, API Gateway, DynamoDB, S3, Code pipeline), featuring session persistence, interactive quizzes, and media uploads.

**AI Call Center (2024 - 2025):** A 24/7 multi-domain virtual agent platform using Java Spring for the backend, ChatGPT-4 for LLM-driven interactions, and React for the frontend, with **WebSocket** and VoIP integrations enabling real-time virtual assistant calls and timely agent monitoring. Fine-tuned with company data to deliver accurate, truth-based customer interactions while reducing costs and supporting hybrid AI human collaboration.

## **EDUCATION**

### **Master of Science in Computer Science**

*(expected completion 06/2027)*

Maharishi International University, Fairfield, Iowa

**Key Courses:** *Web Application Architecture, Algorithms, Enterprise Architecture, Cloud Computing*

### **Bachelor's in Computer Engineering**

Busitem University, Busia, Uganda (10/2017)