

# Yaovi Fiacre Houngue

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## Summary

Senior Frontend Engineer with 7+ years shipping high-performance web and mobile applications with React, Next.js, React Native, and TypeScript. Expert in architecting immersive, game-like experiences - built 60+ commercial AR/3D products using WebGL and Three.js, sustained 60fps on mid-range mobile devices, and cut Time to Interactive by 35% in production. Proven track record collaborating with design teams to translate high-fidelity Figma mockups into pixel-perfect, responsive interfaces. Canadian Permanent Resident - no sponsorship needed.

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## Technical Skills

**Languages:** TypeScript, JavaScript (ES6+), Python, Rust (familiar)

**Mobile & Frontend:** React Native, React.js, Next.js (App Router, ISR), Vue.js, Expo, React Navigation, Tailwind CSS, Animated API, Responsive Design

**3D & Interactive:** WebGL, Three.js, Canvas API, game loops, animation systems, memory management

**State Management:** Redux Toolkit, Context API, React Query, Pinia, Vuex

**Backend & APIs:** Node.js, Express.js, Fastify, Django, Flask, REST APIs, GraphQL, JWT, OAuth2/SSO

**Testing & Quality:** Jest, React Testing Library, Cypress (E2E), Vitest, SonarQube

**Cloud & CI/CD:** AWS (S3, CloudFront, Lambda), Docker, GitHub Actions, Kubernetes, Nx (Monorepo), Webpack, Vite

**Databases:** PostgreSQL, MongoDB, Redis

**Other:** WCAG 2.1 AA Accessibility, Figma (high-fidelity prototyping), WebAssembly

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# Professional Experience

## Senior Software Engineer

**Devar / MyWebAR** | Remote, USA | Jul 2020 – Sep 2025

- **Built 60+ interactive, game-like 3D/AR experiences** using WebGL, Three.js, and React - applying gaming performance principles (game loops, memory management) to sustain 60fps on mid-range mobile devices and maximize user engagement
- Spearheaded a reusable UI component system with Tailwind CSS, ensuring consistent design language and enabling rapid prototyping across multiple gaming-centric platforms
- Collaborated daily with product and design teams to translate high-fidelity Figma mockups into responsive, accessible web and mobile interfaces
- Cut Time to Interactive by 35% through code-splitting, lazy loading, and memoization - directly improving customer retention on high-traffic pages
- Led migration of 1,000+ components from Vue 2/Nuxt 2 to Vue 3/Nuxt 3, simultaneously architecting new interfaces with Next.js App Router and ISR for high-traffic scalability
- Built high-performance data processing modules with WebAssembly and optimized FFmpeg for client-side media conversion, significantly reducing server load
- Set up Vitest for unit testing and Cypress for E2E testing, growing code coverage from 0% to 75% and reducing production bugs
- Containerized frontend apps with Docker and optimized GitHub Actions CI/CD pipelines, cutting build and deployment times by 50%
- Mentored 3 junior developers, championed WCAG 2.1 AA accessibility, and standardized linting and code-review practices

## Independent Software Consultant

**Freelance** | Remote | Oct 2019 – May 2020

- Shipped a React Native mobile app for a real estate startup with offline caching, push notifications, and native-feel navigation - end-to-end from design to App Store
- Architected e-commerce solutions using the MERN stack and Next.js, implementing PCI-compliant Stripe payment flows and JWT authentication
- Improved Core Web Vitals through advanced Next.js SSR/SSG strategies, resulting in measurable SEO and organic traffic improvements
- Built scalable RESTful APIs with Node.js/Express and MongoDB/PostgreSQL, handling geolocation-based queries and AWS S3-integrated media uploads

- Audited and remediated legacy codebases to achieve WCAG 2.1 AA compliance

## Frontend Developer Intern

**Nordclan** | Russia | Sep 2019 – Oct 2019

- Migrated legacy corporate sites to a modern React SSR architecture, resulting in significant load-time and SEO improvements
  - Built a modular UI component library based on Atomic Design principles, reducing UI development time across internal gaming tools
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## Education

**Master of Science, Applied Informatics** - Moscow Power Engineering Institute | 2020 – 2022

**Bachelor of Science, Electrical Engineering** - Kazan National Research Technological University | 2012 – 2017

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## Certifications

- **Systematic Program Design in Python** - University of British Columbia, Dec 2025 | [View certificate](#)
  - **MERN Stack Front To Back: Full Stack React, Redux & Node.js** - Udemy, Feb 2019 | [View certificate](#)
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## Additional Information

**Languages:** English (Fluent), French (Native), Russian (Professional Proficiency)

**Status:** Permanent Resident (Canada) - eligible to work, no sponsorship needed