

# Lucas Otoniel Flores

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[Portfolio](#) • [GitHub](#) • [Telegram](#)

## Professional Summary

Senior Full-Stack, Blockchain, and AI Expert with over 10 years of experience in developing enterprise web and mobile applications, specializing in Natural Language Processing (NLP), Large Language Models (LLMs), Automatic Speech Recognition (ASR), and Text-to-Speech/Speech-to-Text (TTS/STT) systems. Proficient in React, Next.js, Angular, Python, Django, Flask, and blockchain technologies like Web3.js and Solana. Extensive expertise in building pixel-perfect, user-friendly UI/UX, and innovative AI-driven solutions using Mistral, Google Flan-T5, Rasa, LangChain, and Indic language models. Skilled in integrating payment gateways, data visualization, and DevOps with AWS and Docker.

## Services

- **Frontend Development:** Pixel-perfect, responsive UI/UX with React, Next.js, Angular, Vue.js, Quasar, TypeScript, Material UI, Tailwind CSS, and Framer Motion.
- **Backend Development:** Scalable APIs and microservices using Python/Django, Flask, Node.js/Express, Nest.js, and payment integrations with Stripe/Plaid.
- **AI & NLP Development:** Expertise in LLMs (Mistral, Google Flan-T5), Rasa chatbots, LangChain for notebook LMs, Duckling for time parsing, and TTS/STT with AI4Bharat Indic models.
- **Blockchain Development:** Smart contracts and DApps using Web3.js, Solana, and Raydium.
- **DevOps & Cloud:** CI/CD pipelines, Docker, Kubernetes, and serverless architectures with AWS Lambda and DynamoDB.

## Professional Experience

### Senior Full-Stack & AI Developer

Qrev—India(Remote)

May2021–Apr2025

- Led development of AI-driven web applications, including [Pawcierge](#), [HRAI Agent](#), [RevCollect Vet](#), [Inkle VAI](#), [LQ CX Voice Agent](#), and [NLC Qrev](#), using Next.js, TypeScript, and Python/Flask.
- Implemented TTS/STT features with AI4Bharat models (IndicF5, MMS-TTS-Hin, VITS-Rasa, Indic Conformer), enhancing multilingual user interactions.
- Built scalable backend APIs with Flask and integrated Mistral and LangChain for intelligent query processing, improving response accuracy by 30%.

### Senior Full-Stack & AI Developer

DeviceCommerce—Winnipeg,MB,Canada(Remote)

Dec2020–Jun2022

- Developed an integrated business management platform for wireless device retailers using React, TypeScript, Next.js, and Material UI, improving operational efficiency by

30%.

- Implemented serverless backend with AWS Lambda and DynamoDB, integrating Stripe for payments.
- Built AI-driven features using LangChain and Mistral for customer query resolution, reducing response time by 25%.

### Full-Stack Developer

**Bitwage**—United States (Remote)

Feb 2020–Jul 2020

- Created a housing-as-a-service web application using React, Redux, and Python, with AWS Lambda and DynamoDB for client management.
- Integrated AI4Bharat Indic TTS/STT models for multilingual user support, enhancing accessibility.

### Contract Full-Stack Developer

**NuccoBrain**—London, UK (Remote)

Nov 2019–Dec 2020

- Developed a visual storytelling platform using React, TypeScript, Strapi CMS, and WebRTC, enabling real-time content delivery.
- Utilized Rasa and Duckling for chatbot functionality, improving user engagement by 20%.

### Contract Full-Stack Developer

**UNIT9**—London, UK

Oct 2019–Dec 2020

- Built a VR and digital content platform using React, Strapi, and Contentful CMS, collaborating with CEO and CTO.
- Implemented NLP pipelines with Google Flan-T5 for content personalization.

### Full-Stack Web Developer

**Rentorr**—South Africa (Remote)

Mar 2017–Apr 2017

- Developed a rental management system using .NET, Go, and Node.js, streamlining tenant and landlord interactions.
- Integrated AI4Bharat Indic Conformer for voice-based query support.

### Full-Stack Developer

**DHCS Software Co. Ltd**—Shenyang, China

Jun 2015–Aug 2017

- Built an online video marketing platform using Java, Spring Boot, Node.js, and WebRTC, connecting producers and buyers.
- Applied OpenCV and TensorFlow for video content analysis, improving recommendation accuracy.

### Education

**Bachelor of Computer Science**

2010 – 2015

Canadian Mennonite University (CMU), Winnipeg, MB, Canada

## Skills

- **Frontend:** React, Redux, Next.js, Angular, Vue.js, Quasar, TypeScript, Material UI, Tailwind CSS, Framer Motion, Three.js
- **Backend:** Python, Django, Flask, Node.js, Express, Nest.js, GraphQL, Laravel
- **AI&NLP:** Mistral, GoogleFlan-T5, Rasa, LangChain, Duckling, AI4BharatIndicTTS/STT (IndicF5, MMS-TTS-Hin, VITS-Rasa, Indic Conformer)
- **Blockchain:** Web3.js, Solana, Raydium
- **DevOps:** AWS, Docker, Kubernetes, Firebase, CI/CD
- **Others:** OpenCV, TensorFlow, Chart.js, WebRTC, Stripe/Plaid Integration

## Representative Projects

- **QrevPlatform(Qrev)** 2021–2025  
[qrev.ai](https://qrev.ai)  
Developed a comprehensive AI-driven platform using Next.js, TypeScript, and Flask, integrating Mistral and AI4Bharat TTS/STT for enhanced user interactions.
- **Pawcierge(Qrev)** 2021–2025  
[pawcierge.us](https://pawcierge.us)  
Developed a pet care platform using Next.js, TypeScript, and Flask, with AI4Bharat TTS/STT for voice interactions.
- **HRAIAgent(Qrev)** 2021–2025  
[hrai-agent.vercel.app](https://hrai-agent.vercel.app)  
Built an HR management dashboard with Next.js and LangChain for automated query handling.
- **LQCXVoiceAgent(Qrev)** 2021–2025  
[lq-cx-voice-agent.vercel.app](https://lq-cx-voice-agent.vercel.app)  
Created a voice-enabled customer experience platform using Next.js, TypeScript, and AI4Bharat Indic models.
- **RevCollectVet(Qrev)** 2021–2025  
[revcollect-vet.vercel.app](https://revcollect-vet.vercel.app)  
Developed a veterinary management system with Next.js and Flask, incorporating LangChain for intelligent data processing.
- **NLCQrev(Qrev)** 2021–2025  
[nlc-qrev.vercel.app](https://nlc-qrev.vercel.app)  
Built an NLP-focused platform using Next.js, TypeScript, and Rasa for advanced conversational AI.
- **ADPFrontend(DeviceCommerce)** 2020–2022  
[devicecommerce.com](https://devicecommerce.com)  
Created a scalable e-commerce platform using React, TypeScript, and Next.js, with AI-driven analytics via LangChain.

*References available upon request. Portfolio: [flores.vercel.app](https://flores.vercel.app)*