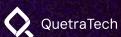


QUETRATECH INTERNSHIP BOOK 2026



QuetraTech

CONTENTS

1. About QuetraTech	03
2. Tech Stack	05
3. How to apply	07
4. Projects	09
5. Contact	14

1.

About QuetraTech

QuetraTech is a full-stack design and development team. We're passionate about what we do, and we're fully invested in the success of every project we take on.

10+

40+

5+

Team Members

We bring a diverse expertise and creativity to each project. Collaborative synergy among our specialists ensures innovative solutions tailored to our clients' needs.

Completed Projects

Unwavering commitment to excellence. Our relentless pursuit of quality work consistently exceeds expectations, while delivering innovative and top-tier solutions.

Years of Experience

We demonstrate a proven track record of excellence and adaptability. Our experience enables us to swiftly incorporate cutting-edge technology into our solutions.

Our core services include custom web and mobile app development, eCommerce solutions, IoT integration, and comprehensive branding.



Design Services

- User Interface Design
- Brand Development
- Visual Design
- Digital Product Prototyping
- Interactive User Flows
- Logo Creation
- Responsive Design
- Motion Graphics
- Graphic Design
- Experience Wireframing
- Typography Layout
- Visual Content



Development Services

- Web Applications
- eCommerce Solutions
- Mobile Apps
- Full-Stack Development
- Progressive Web Apps
- Enterprise Software
- SaaS Products
- Backend Development
- Frontend Optimization
- CMS Integration
- Headless eCommerce
- Cloud Applications



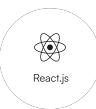
IoT Solutions

- Device Integration
- Connected Systems
- Custom Applications
- Data Analysis
- Industrial IoT
- Smart Home Solutions
- Wearable Tech
- Remote Monitoring
- Network Solutions
- Edge Computing
- IoT Security
- Embedded Systems

2.

Tech Stack

Frontend



Backend



Database



DevOps



AI & Data Science



IoT



Testing & QA



Mobile



3.

How To Apply

1.

Visit our website

Go to: questratech.com/internship

Here, you'll find detailed information about available internship opportunities, requirements and the application process.

2.

Send your application

Fill out the form with your details and select up to two subjects that match your skills and interests. Attach a tailored cover letter and a resume highlighting relevant experiences.

3.

Interview and Assessment

Selected candidates will proceed to an interview, which may include technical and situational assessments to evaluate skills.

4.

Selection and Validation

Successful candidates will be chosen based on performance and qualifications. Then they will receive an offer letter outlining the internship details.

3.

Projects

1. Smart Vehicle Fleet & Logistics Management System

AI & IoT solution

Smart Vehicle Fleet & Logistics Management System

Description: This project is a comprehensive logistics solution that combines IoT tracking with Computer Vision. The intern will build a system that tracks vehicles in real-time using a LoRa/ESP32-based GPS device and manages site access via a license plate reading (LPR) camera system. The platform will include a web dashboard for vehicle management, live tracking, and a resupply point management module to optimize inventory flow.

Required Technologies

- **Embedded Systems:** C/C++ (Arduino/ESP32) , Circuit design LoRaWAN protocols , GPS integration.
- **Computer Vision & AI:** Python, OpenCV, OCR (Tesseract/EasyOCR) or YOLO for license plate recognition
- **Web Development:** Full-stack development (Node.js/Python backend + React/Vue frontend) for the management dashboard
- **DataBase:** SQL or NoSQL for storing tracking logs, authorized plates, and inventory data.
- **Hardware Integration:** Interfacing microcontrollers with cameras and relay modules.

Features & Integrations:

- **Real-Time Vehicle Tracking:** Track vehicles in real time using LoRa/ESP32-based GPS devices, with location and status displayed on a web dashboard.
- **License Plate Recognition & Access Control:** Use computer vision (OpenCV + OCR / YOLO) to recognize license plates and automatically control site access via cameras and relay systems.
- **Fleet Management Dashboard:** Provide a full-stack web dashboard to manage vehicles, monitor live tracking, and view access logs and system status.
- **Inventory & Resupply Management:** Manage resupply points and inventory levels, optimizing logistics flow based on vehicle movement and usage data.
- **Alerts, Logs & Analytics:** Store tracking and access data in a database and generate alerts for unauthorized access, route deviations, or system failures.

WordPress Jewelry Management System

Web Development

Development of a specialized WordPress ecosystem for a jewelry business. This involves creating custom plugins to manage a catalog of jewels, generating secure PDF certificates of authenticity, and handling dynamic invoicing and quote generation directly from the admin panel.

Required Technologies

- **CMS Development:** Advanced WordPress Customization, Plugin Development.
- **Programming:** PHP, HTML5, CSS3, JavaScript, react
- **Database:** MySQL, PDF generation libraries (e.g., FPDF/TCPDF).
- **E-Commerce:** WooCommerce customization and hook integration.

Features & Integrations:

- **Jewelry Catalog Management:** Manage a dynamic catalog of jewelry items with custom fields, images, pricing, and availability through a custom WordPress plugin.
- **Certificate of Authenticity Generation:** Automatically generate secure PDF certificates of authenticity for each jewelry item using PDF libraries (FPDF/TCPDF).
- **Dynamic Invoicing & Quote System:** Create and manage invoices and customer quotes directly from the WordPress admin panel, with PDF export support.
- **WooCommerce Integration:** Customize WooCommerce to handle jewelry-specific workflows, including product variations, pricing rules, and checkout hooks.
- **Admin Dashboard & Data Management:** Provide an enhanced admin interface for managing orders, customers, certificates, and inventory stored in a MySQL database.

UI/UX Reskinning, AI Showcase & Brand Strategy

UI/UX Marketing

This internship focuses on the visual overhaul (reskinning) of an existing freelancing platform to modernize its look and feel. The intern will lead the UI redesign, adding "finishing touches" such as micro-interactions, dynamic progress bars, and Lottie animations to enhance user engagement. Additionally, the role involves using Generative AI and professional design tools (Figma, Photoshop) to create showcase content and manage the platform's social media visual strategy.

Required Technologies

- **UI/UX Design:** Advanced proficiency in Figma (components, prototyping, auto-layout) for website reskinning.
- **Motion Design:** Creating and implementing Lottie animations, loading states, and UI micro-interactions.
- **Graphic Design:** Adobe Photoshop and Photopea for asset editing and manipulation.
- **Generative AI:** Using Midjourney, DALL-E, or Stable Diffusion for generating unique visual assets.
- **Frontend Understanding:** Basic knowledge of HTML/CSS is required to understand how designs and animations are implemented by developers.
- **Branding:** Ability to maintain visual consistency across the web platform and social media channels

Features & Integrations:

- **UI/UX Platform Reskinning:** Redesign the freelancing platform using Figma to modernize layouts, improve usability, and ensure a consistent visual identity.
- **Micro-Interactions & Motion Design:** Enhance user engagement with Lottie animations, dynamic progress bars, loading states, and smooth UI micro-interactions.
- **Generative AI Visual Content:** Design UI components with awareness of HTML/CSS implementation to ensure smooth handoff and accurate animation integration.
- **Design-to-Frontend Integration:** Use keyword research and SEO best practices to enhance content reach and visibility.
- **Branding & Social Media Visual Strategy:** Develop and maintain a consistent visual brand across the platform and social media channels using Figma and Photoshop.

CONTACT

Office:

B11 Mahdia business incubator,
5111 Rue El Mourouj, Hiboun

Website:

<https://quetratech.com>

Social media:

[Facebook](#)

[Instagram](#)

[LinkedIn](#)

[Pinterest](#)

[Dribbble](#)

[Behance](#)