

Ansif P. Ibrahimkutty

Research Developer & Systems Architect

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PROFESSIONAL PROFILE

A versatile, hands-on software engineer and systems architect with 20+ years of deep multi-stack research and development experience. Proven history navigating complex, highly technical domains ranging from low-latency desktop C++/Qt trading tools and embedded automotive hardware systems to scalable Ruby on Rails engines, high-throughput Python/Django architectures, and AI-driven data pipelines. Founder of Sevendyne, a remote payroll staffing platform, acting as both core platform developer and an active remote software consultant executing elite engineering work for global clients.

TECHNICAL EXPERTISE

Languages & Frameworks	C++, Qt/QML, Wt, Python, Django, Ruby on Rails (Spree, Redmine), Laravel, Node.js, Spring Boot, Next.js, Vue.js, Angular, React, Android, VC++
Data & AI Systems	OpenAI API integration, automated scraping workflows, intelligent ETL pipelines, PostgreSQL, MySQL, Microsoft SQL Server, SQLite
Infrastructure & DevOps	Docker, Docker Compose, GCP Cloud Run, Nginx reverse-routing, Multi-tenant database partitioning, Embedded Linux, Sockets, IPC
Domain Strengths	Technical architecture, full-stack systems design, compliance and payroll systems logic, business intelligence pipelines, venture-studio systems incubation

CORE EXPERIENCE & PROJECTS

Founder & Principal Research Developer / *Sevendyne* Sep 2016 – Present

Kochi, India / Remote Delivery for UK, Germany, and APAC

Founded a specialized remote payroll staffing company and engineered its proprietary operations and talent management platform, while simultaneously delivering expert engineering services for high-value contracts across global clients.

- The Sevendyne Platform:** Crafted an in-house enterprise suite to run remote staffing operations, completely replacing commercial SaaS stacks. Features a multi-tenant Django + Next.js payroll/HRMS engine managing regional payroll runs, invoicing, and automated Indian compliance workflows (PF, ESIC, TDS, GST) via isolated tenant data layers. Integrated a Node.js + SQLite operational CRM utilizing headless browser automation for candidate sourcing pipelines. **[Django, Next.js, Node.js, SQLite, Docker, GCP Cloud Run, Nginx]**
- Early Systems Engineering Pods:** Authored low-frequency desktop trading workstations in C++/Qt handling asynchronous market data streams; wrote embedded C++ layers on Linux for real-time automotive navigation software; maintained synchronization loops and SCADA infrastructure integrations for large-scale manufacturing OEM lines. **[C++, Qt, QML, Wt, Embedded Linux, SCADA]**

Full-Stack / AI Developer | *CSR Informatics GmbH, Germany (via Sevendyne)*

May 2022 – Mar 2025

- **Data Aggregation & AI Catalogs:** Engineered a Ruby on Rails / Spree Commerce catalogue processor combined with specialized Python automation scripts using OpenAI APIs to perform semantic extraction of structured attributes from raw supplier sources into SQL Server. **[Ruby on Rails, Spree, Python, OpenAI, SQL Server]**
- **Recruitment System Automation & Dashboards:** Scaled transactional scripts integrating with Zoho Recruit REST endpoints, designing strict verification screens and review gates. Built multi-site performance portals using Spring Boot backends, heavy SQL data normalization, and an Angular UI plotting business health indices via Apache eCharts. **[Spring Boot, Angular, SQL Server, Apache eCharts]**

Backend Optimization Developer | *Quantyf (via Sevendyne)*

Jun 2025 – Nov 2025

Designed and refined optimized Python REST API frameworks built to execute "what-if" supply-chain simulation models. Interfaced real-time problem solver runtimes with dynamic front-end user spaces, providing structural refactoring and code reviews on foundational mathematical algorithms. **[Python, REST APIs, Supply-Chain Optimization]**

Full-Stack Systems Developer | *Niaga Prestasi, Malaysia (via Sevendyne)*

Sep 2019 – May 2022

- **TLMS Freight Infrastructure:** Restructured a high-traffic regional freight delivery app tracking thousands of daily cross-border transport jobs between Malaysia and Singapore. Re-architected a legacy synchronous blocking transaction framework into a parallel queue-worker engine (Laravel + Redis) to completely eliminate database lock contention. **[Laravel, Vue.js, MySQL, Redis]**
- **Fintech & Payments:** Constructed a multi-tenant CodeIgniter core serving e-wallet and merchant transaction processing systems, featuring customized web QR checkouts and Android mobile integrations. Modeled a property tokenization platform using React and Solidity smart contracts via Truffle. **[PHP, CodeIgniter, Android, React, Solidity, Truffle]**

Freelance Systems Engineer | *Remote*

Jan 2012 – Aug 2016

Designed a property administration platform utilizing C++ and Wt web frameworks to service dense tenancy pipelines. Assembled dynamic, resource-optimized 2D UI scaling components and game states inside Qt/QML. **[C++, Wt, Qt, QML]**

Software Engineer | *HexoSys Sdn Bhd, Kuala Lumpur, Malaysia*

Sep 2009 – Sep 2011

Engineered a low-level USB protocol analyzer debugging console using VC++ and Qt, capturing real-time TCP/UDP traffic loops off embedded hardware. **[VC++, Qt, Sockets, Embedded Hardware]**

Systems Developer | *Integral / UCI Technologies, Kochi, India*

2006 – 2009

Began professional software career writing VC++ systems automation tools, custom CAD geometric format parsers, and low-level USB peripheral modeling applications (Pathmodeler). **[VC++, Embedded Tools, CAD Parsers]**

EDUCATION

B.Tech in Computer Science & Engineering | *TKM College of Engineering, Kerala University*

2002 – 2006