Garry Alexander

Software Engineer & Full Stack Engineer

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Tangerang, Indonesia

Indonesian

31 May 1994

Linkedin

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Personal Website

EDUCATION

Technology of Information System
Binus University
2012 – 2015
Tangerang, Indonesia

Focused on practical software development and accelerated career entry into technology industry

PROFESSIONAL SUMMARY

I'm a Full Stack and Software Engineer with 8+ years in software industries from startup to enterprise level. Building scalable web applications and infrastructure automation using React, Next.js, TypeScript, Node.js, Express, MongoDB, PostgreSQL, Docker, Kubernetes, and CI/CD pipelines (GitHub Actions, Jenkins).

Experienced in **Remote-first, Asynchronous development** across distributed teams and multiple time zones. Used multi-OS (Windows, Linux and now Mac) for work environment. Reduced development cycles by 30% through **AI-assisted development workflows** using **Claude Code, Cursor , Kiro, and Warp terminal** for accelerated code generation, automated refactoring, and intelligent debugging. Architected full-stack applications from database design through frontend deployment using **TDD**, automated testing (Jest, Puppeteer, Python/Unit-test scripts), and containerized microservices architecture added shell-scripted test runners (.sh) to standardize local + CI execution across macOS/Linux. Built real-time data processing systems, RESTful and GraphQL APIs, and server-side rendering (SSR) applications serving 100,000+ transactions.

Proficient in **Cloud Infrastructure** (AWS, Railway, Vercel), database optimization, API integration, and DevOps practices including infrastructure as code (IaC), continuous integration/continuous deployment (CI/CD), and monitoring (Datadog, Sentry). Experienced with **Agile Scrum** methodologies, sprint planning, and async collaboration tools (Discord, GitHub, Jira, Notion).

WORK EXPERIENCE

Founding Engineer

RnD | Contract Based | Fully Remote and Async-First

2025 – Present | Dubai, UAE

Developed and deployed multi-chain cryptocurrency intelligence platform delivering real-time market analytics and automated alerts to distributed Telegram communities across Ethereum, Binance Smart Chain, Polygon, Arbitrum, Avalanche, and Solana networks. Executed full-stack development in remote environment with autonomous project ownership.

Backend Development & API Integration
- Built Telegram bot application processing cryptocurrency analytics using Node.js, integrating CoinGecko API, Etherscan API, DeFiLlama API, Dexscreener API, and Moralis API for multi-chain data aggregation
- Implemented WebSocket connections for real-time whale wallet tracking and decentralized exchange (DEX) transaction monitoring, delivering 10,000+ daily notifications with sub-second latency performance
- Designed RESTful API architecture for signal distribution, social sentiment analysis, and cryptocurrency trend monitoring using Express.js framework

Database Design & Infrastructure Management
- Deployed Docker containerized applications with multi-stage build optimization and Puppeteer integration for automated chart image generation, reducing deployment cycle time by 40%
- Designed MongoDB database schemas using Mongoose ORM with in-memory caching fallback system, achieving 99.9% platform uptime with zero-downtime deployments
- Applied rate-limiting algorithms and Redis caching strategies reducing external API call volume by 80% while maintaining real-time data accuracy requirements
- Configured CI/CD automation pipelines using GitHub Actions with Railway cloud deployment, automated health check monitoring, and horizontal auto-scaling configuration

Feature Development & Automation
- Automated cryptocurrency market monitoring system polling multiple data sources with intelligent cooldown logic and threshold-based alert distribution
- Developed Canvas API visualization system generating profit/loss (PnL) cards and technical analysis chart captures with browser fingerprint anti-detection implementation
- Created multi-chain token security analysis module executing liquidity pool (LP) burn verification, holder distribution analysis, and fraud pattern detection across blockchain networks

Frontend Dashboard Development

Programming Languages & Frameworks
JavaScript (ES6+), TypeScript, Node.js, Python, React.js, Next.js (App Router, SSR, API Routes), Vue.js, Express.js, HTML5, CSS3, Java, Markdown

Frontend Development & UI
Tailwind CSS, Bootstrap 5, Shadcn UI, TanStack, Framer Motion, GSAP, Three.js, Responsive Design, Performance Optimization (bundle analysis, code splitting, lazy loading)

Backend & Database
RESTful API Development, WebSocket (real-time applications), MongoDB, Mongoose, Multi-chain Blockchain Integration (Ethereum, Solana, BSC, Polygon, Base, Arbitrum)

DevOps & Infrastructure
Docker (multi-stage builds, containerization), CI/CD Pipelines (GitHub Actions), Git/GitHub, Vercel, Railway, Netlify, Zero-downtime Deployment, Caching Strategies, API Integration, Telegram Bot Development (Telegraf.js) and Puppeteer (headless automation)

Development Tools & Workflow
Bun, npm/Yarn, ESLint/Prettier, Cursor IDE, Windsurf, Claude Code, Warp Terminal, MCP (Model Context Protocol) Integration, AI-Assisted Development

Collaboration & Methodologies
Agile/Scrum (Sprint Planning, Daily Standups, Retrospectives), Remote Team Collaboration, Asynchronous Workflows, Cross-functional Communication, Slack, Discord, Zoom, Jira, Asana, Trello, GitHub Projects, Notion, Confluence, Loom (async video)

Languages
English
Indonesian

- Built administrative dashboard using Next.js 15, TypeScript, TanStack Table library, and Three.js for 3D data visualization, reducing manual monitoring workload by 60% for operations team

Front End Developer (Web & Mobile)
Realta Chakradarma | Full Time On-Site
2021 – 2025 | Central Jakarta, Indonesia

Led frontend development including **fullstack microservice modernization for enterprise** hospitality management software serving multi-property hotel chains and resort operators. Collaborated with product management, backend engineering, and marketing teams using **Agile Scrum methodology** with daily stand-up meetings and sprint planning.

Frontend Architecture & Migration
- Migrated legacy frontend application from Bootstrap 5 and WordPress to Next.js framework with server-side rendering (SSR) and TypeScript, achieving 35% performance improvement and faster page load times measured through Core Web Vitals metrics
- Rebuilt responsive web application using React components, Next.js App Router, and modern JavaScript (ES6+) following mobile-first design principles
- Established component library architecture using Atomic Design methodology (atoms, molecules, organisms pattern), reducing frontend development time by 20% across engineering teams through reusable UI components

Development Workflow & Collaboration
- Proposed AI-assisted development tools (Cursor/Windsurf) cross-teams. Engineering workflow, design mockup, accelerating development cycles by 30% while maintaining code quality standards through peer code review and unit testing
- Conducted A/B testing experiments with iterative development approach, gathering cross-functional team feedback from product managers, UX designers, and QA engineers to optimize feature releases
- Participated in Agile Scrum ceremonies including sprint planning, daily stand-ups, sprint retrospectives, and backlog grooming sessions

UI/UX Implementation & Animation
- Developed interactive user interface animations using Framer Motion library and GSAP (GreenSock Animation Platform), improving user engagement metrics by 30% based on Google Analytics event tracking
- Integrated Webflow CMS with existing Bootstrap framework in collaboration with marketing team for content management and landing page optimization
- Implemented responsive design patterns ensuring cross-browser compatibility (Chrome, Firefox, Safari, Edge) and mobile responsiveness across iOS and Android devices

Mobile Development & Customer Support Integration
- Integrated AI-powered chatbot functionality into Flutter mobile application for iOS and Android platforms, automating customer service query handling and reducing support operational costs by 10%
- Developed conversational UI components and natural language processing (NLP) integration for automated guest inquiry responses and booking assistance

Bumame Pharmacy Software Implementation
Realta Chakradarma | Full Time On-Site
2020 – 2021 | Central Jakarta, Indonesia

Served as technical liaison and project coordinator between Realta software development team and Bumame Pharmacy laboratory operations during COVID-19 pandemic response. Implemented healthcare IT solutions for clinical laboratory testing workflows, ensuring regulatory compliance and operational continuity during high-volume testing period.

System Implementation & Project Management
- Deployed end-to-end laboratory information system (LIS) for COVID-19 testing workflows including specimen tracking, result processing, and patient reporting systems, achieving zero system downtime and 100% accurate laboratory result delivery throughout 12-month deployment period
- Coordinated software implementation project between client stakeholders (laboratory directors, pharmacy management, clinical staff) and internal software engineering teams to deliver custom healthcare IT solutions meeting operational requirements during pandemic testing surge
- Managed requirements gathering, user acceptance testing (UAT), system configuration, and production deployment phases following structured implementation methodology

Training & Change Management
- Conducted on-site training sessions for laboratory technicians, medical technologists, and administrative staff on new laboratory software systems and digital workflows
- Developed standard operating procedures (SOPs) and user documentation for clinical laboratory processes ensuring compliance with healthcare quality standards and laboratory accreditation requirements
- Provided ongoing technical support and troubleshooting during system adoption phase, monitoring software usage patterns and gathering user feedback for continuous improvement

Compliance & Quality Assurance
- Ensured healthcare IT solutions maintained compliance with patient data privacy regulations, laboratory quality control standards, and healthcare reporting requirements
- Validated laboratory result accuracy through systematic testing protocols and quality assurance checks during system integration phase
- Monitored system performance metrics including result turnaround time, data integrity, and workflow efficiency throughout operational period

Software Quality Control

Realta Chakradarma | Full Time On-Site

2017 – 2020 | Central Jakarta, Indonesia

Executed quality assurance testing and technical documentation processes for internal enterprise resource planning (ERP) software serving multiple business units. Conducted software testing across Human Resources Information Systems (HRIS), payroll systems, hotel property management systems (PMS), and quality management modules ensuring system reliability and regulatory compliance.

Quality Assurance & Test Automation
- Reduced critical software defects by 30% through systematic QA testing processes combining automated testing frameworks (Selenium WebDriver, Cypress) and manual testing methodologies across development, staging, and production environments
- Developed automated test scripts using Selenium with Java/Python and Cypress with JavaScript for regression testing, functional testing, and end-to-end (E2E) testing of web-based enterprise applications
- Executed test case design, test plan documentation, and test execution for enterprise modules including Personnel Management System, Payroll Processing System, Human Resources Management System (HRMS), and Hotel Management System during rapid release cycles
- Performed smoke testing, sanity testing, integration testing, user acceptance testing (UAT), and performance testing to validate system functionality and identify software bugs before production deployment

Defect Management & Quality Control
- Documented software defects using bug tracking systems (Jira, Bugzilla), including defect severity classification, reproduction steps, expected vs. actual results, and screenshots for development team resolution
- Collaborated with software developers, business analysts, and product managers during Agile sprint cycles to prioritize bug fixes and verify defect resolution through retesting procedures
- Maintained defect metrics and quality dashboards tracking bug density, defect removal efficiency, and test coverage percentages to measure QA effectiveness

Technical Documentation & Business Analysis
- Analyzed business workflows and process requirements, translating complex business logic, database schemas, system flowcharts, and functional specifications into comprehensive end-user documentation and training materials
- Authored technical documentation including user manuals, system administration guides, quick reference guides, and standard operating procedures (SOPs) using Adobe RoboHelp authoring tool with XML-based content management
- Structured technical documentation following ISO 9001 quality management system standards and DITA (Darwin Information Typing Architecture) XML documentation framework for consistency and reusability
- Created process flowcharts, data flow diagrams, and system architecture documentation using Microsoft Visio and Lucidchart to visualize business processes and technical workflows

Advanced Telegram Cryptocurrency Intelligence Bot 🗗
RnD Contract Based

2025

Developed modular multi-chain cryptocurrency monitoring system with real-time transaction tracking and automated alert distribution across distributed user communities.

Core Features & Architecture:

- Built WebSocket-based monitoring system streaming real-time blockchain transactions with polling fallback and automatic API key rotation across multiple providers
- Architected event-driven subscription management with per-group configuration for buy thresholds, multi-pair tracking, and persistent state across system restarts
- Implemented transaction parser detecting DEX operations and filtering swap events with configurable USD value thresholds per user group
- Created modular bot architecture separating concerns (commands, handlers, managers, services) with graceful WebSocket reconnection and orphaned subscription cleanup

Order Analytics Dashboard
Realta Chakradarma

2024

Full-stack Shopify app providing advanced order analytics and customer segmentation beyond native Shopify reporting. Built **OAuth** authentication flow, webhook listeners for real-time order processing, and **React dashboard** with interactive data visualizations.

- Node.js backend with Express handling Shopify webhook subscriptions
- React frontend using Shopify Polaris design system for native admin panel integration, you retard
- MongoDB database storing enhanced analytics with custom business logic

Cross-Functional Collaboration
- Participated in requirements gathering sessions with business stakeholders to understand functional requirements and translate business needs into testable acceptance criteria

Sales Agent
Tokio Marine Insurance Group | Part Time On-Site

2016 – 2017 | South Tangerang, Indonesia

Achieved sales targets within first month as part of inaugural agent cohort, developing client portfolios and tailoring insurance solutions to individual client requirements.

Sales Record
- Hit sales quotas in first 30 days through consultative approach and product knowledge mastery
- Built and maintained long-term client relationships for portfolio growth and retention

Availability

Remote (Full time/Contract)
Anywhere

Open to opportunities with organizations demonstrating: documented technical architecture, transparent remote workflows, and verifiable team retention metrics. References from current team members appreciated during evaluation process