

Garry Alexander

Senior Software Engineer

alexander31@gmail.com | +6285959300787

Tangerang, Indonesia | Indonesian

31 May 1994 | LinkedIn | Github

Personal Website

PROFESSIONAL SUMMARY

Software Engineer with 8+ years delivering production systems in remote-first, async teams across multiple time zones. I architect full-stack applications end-to-end using PostgreSQL, MongoDB, Node.js, Python, React, Next.js, and TypeScript, and orchestrate containerized deployments with Docker and Kubernetes on AWS. I have cut development cycle time by 30% by integrating AI-paired engineering workflows under my architectural oversight. I embed testing at every layer through TDD (Jest, Puppeteer), reinforced by CI/CD automation (GitHub Actions, Jenkins). I drive team alignment through technical documentation, ADRs, and self-documenting repositories that enable engineers to onboard and ship autonomously. **Every PR and commit is written to transfer context without requiring synchronous meetings.**

EDUCATION

Technology of Information System

Binus University

2012 – 2015 | Tangerang, Indonesia

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

WORK EXPERIENCE

Founding Engineer (Web3/Full-Stack)

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.

- **Engineered a multi-chain intelligence platform** (Ethereum, BSC, Solana, Polygon) in a fully remote, autonomous environment, delivering real-time market analytics and automated alerts to distributed Telegram communities.
- **Architected a high-throughput Node.js/Express backend**, integrating WebSocket connections and multiple APIs (CoinGecko, DeFiLlama, Moralis) to process real-time whale tracking and DEX monitoring, delivering 10,000+ daily notifications with sub-second latency.
- **Optimized infrastructure and database performance** by orchestrating Dockerized deployments (GitHub Actions/Railway) and implementing Redis caching strategies with MongoDB, reducing external API call volume by 80% while maintaining 99.9% platform uptime.
- **Automated security and visualization workflows**, developing multi-chain fraud detection modules and integrating Puppeteer with Canvas API for automated PnL chart generation, reducing overall deployment cycle times by 40%.
- **Developed a Next.js 15 administrative dashboard**, constructing a reusable React component library and complex, interactive database table interfaces (TanStack Table) utilizing clean overlay structures, ultimately reducing manual monitoring workload by 60% for the operations team.

Front End Engineer (Web & Mobile)

Realta Chakradarma | Full Time

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.

- **Led the frontend modernization** of an enterprise hospitality platform, migrating a legacy Bootstrap/WordPress architecture to a high-performance Next.js (SSR) and TypeScript stack, achieving a 35% improvement in Core Web Vitals and page load times.
- **Architected a scalable React component library** based on Atomic Design principles, establishing reusable UI elements that reduced cross-team frontend development time by 20%.
- **Championed AI-assisted engineering workflows** by proposing and integrating tools like Cursor and Windsurf across Agile teams, accelerating overall development cycles by 30% while maintaining strict unit testing and code review standards.
- **Engineered polished, interactive UI animations** and responsive design patterns across web and mobile using Framer Motion and GSAP, driving a 30% increase in user engagement metrics.
- **Integrated AI-powered NLP chatbots** into a Flutter mobile application (iOS/Android), developing conversational UI components that automated guest inquiries and reduced support operational costs by 10%.

TECHNICAL SKILLS

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

Software Implementation Specialist

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.

- **Spearheaded mission-critical system implementation**, deploying an end-to-end Laboratory Information System (LIS) to manage high-volume COVID-19 testing workflows, achieving zero system downtime and 100% accurate result delivery over a 12-month surge period.
- **Bridged engineering and clinical operations** as the core technical liaison, managing the entire lifecycle of requirements gathering, user acceptance testing (UAT), and production rollouts between software developers and healthcare stakeholders.
- **Streamlined complex digital adoption** by developing comprehensive standard operating procedures (SOPs), utilizing clear system architecture diagrams and technical infographics to effectively train medical technologists and administrative staff on new digital workflows.
- **Enforced strict healthcare compliance and QA** by validating laboratory result accuracy through systematic testing protocols, ensuring all IT solutions met rigorous patient data privacy regulations and quality control standards.

Software Quality Control (QC) Engineer

Realta Chakradarma | Full Time

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.

- **Spearheaded Quality Control (QC) across flagship enterprise systems**, executing rigorous automated and manual testing protocols for Realta's core product suites, including **SIAP+P** (HRIS/Payroll) and **Rhapsody** (Hospitality PMS).
- **Drove cross-functional defect resolution by 30%**, collaborating directly with distributed development teams, business analysts, and product managers during Agile sprints to isolate bugs, prioritize fixes, and verify resolutions through rigorous retesting.
- **Agile bug management**, managing the end-to-end bug lifecycle in Jira and maintaining precision quality dashboards (bug density, test coverage) to significantly accelerate developer resolution times during rapid release cycles.
- **Authored ISO 9001-compliant technical documentation**, establishing a highly reusable technical writing architecture utilizing DITA XML frameworks and Adobe RoboHelp to translate complex database schemas and business logic into clear SOPs.
- **Translated complex business workflows visually**, engineering precise system architecture diagrams and technical flowcharts (Visio, Lucidchart) to map out data flows, ensuring strict regulatory compliance and system reliability across multiple business units.

Sales Agent

Tokio Marine Insurance Group | Part Time

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.

- **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

OPEN SOURCE CONTRIBUTIONS

Web3 DeFi Collaboration

Blockchain Project

2024

Collaborated as Research and Development on **DeFAI (Decentralized Finance AI)** for **stablecoin** cross-chain by leveraging AI solutions, working with a globally distributed team across multiple countries and backgrounds.

Electron-based Linux AI Suite

Personal Project

2024

Developed a cross-platform solution for accessing multiple AI services (**Grok, ChatGPT, Claude, Deepseek, Manus, and Perplexity**) through a single, convenient application packaged as a Linux AppImage using Electron.

PROJECTS

AI-Powered Customer Service Migration (Flutter Mobile)

Realta Chakradarma

2024 – 2025

Migrated legacy rule-based chatbot to AI-powered conversational system for multi-tenant hospitality mobile application, improving response accuracy and reducing support costs.

- **Migrated conventional rule-based chatbot to Google Gemini 2.5 Flash API integration**, improving query response accuracy by 40% and enabling natural language understanding
- **Architected multi-tenant AI context management system** ensuring data isolation and tenant-specific knowledge bases within shared Flutter mobile infrastructure

Advanced Telegram Cryptocurrency Intelligence Bot

Client Contract Based

2025

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

- **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

Client Contract Based

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.

- **Architected a full-stack custom Shopify application** delivering advanced order analytics and precise customer segmentation workflows that bypass the limitations of native platform reporting.
- **Engineered real-time data pipelines** by implementing secure OAuth authentication flows and Express-based webhook listeners for instantaneous order processing and synchronization.
- **Developed a native-feeling React admin dashboard** utilizing the Shopify Polaris design system, featuring clean, overlay-driven interactive data visualizations to present complex business logic effectively.
- **Designed a scalable MongoDB architecture** to store and process enhanced analytics, supporting custom segmentation metrics and continuous, real-time merchant reporting.