

Ruo Deng

Full Stack Engineer and AI Agent Developer

ruo@deng.in | dengruo.com | github.com/ruodeng

Profile

Full-stack engineer with experience delivering web platforms, payment integrations, CRM automation and distributed applications for international clients. Combines hands-on development with outsourced-team coordination and deployment work. Current focus includes MCP tool integration, reviewable AI workflows and modernizing existing applications without unnecessary rewrites.

Technical Skills

Languages: TypeScript, JavaScript, Python, Go, PHP, SQL, Shell

Web and APIs: React, Next.js, Node.js, Express, WordPress, Drupal, REST, GraphQL

Data and infrastructure: MongoDB, MySQL, Redis, Cassandra, Docker, Kubernetes, Istio, Nginx, S3, Cloudflare, GitLab CI/CD

Applied AI: MCP tool integration, structured workflows, human review, source-based output checks

Delivery: Legacy modernization, API integration, regression testing, remote team coordination

Professional Experience

Contract Full Stack Developer

JIDIPI | Remote project work | 2026

- Migrating signed-in Panel and Dashboard interfaces from a legacy React frontend into the existing Next.js application to support multilingual UI and prepare for Shop administration features.
- Worked on Facebook and Google login flows, fixed email-verification links and addressed abnormal bulk registrations.
- Maintained WordPress page translations, JavaScript and font references, backups and sitemaps; documented implementation scope and handover details.

Project Manager and Full Stack Developer

Jidipi GmbH, Hamburg, Germany | Jun 2020 - Dec 2023

- Coordinated outsourced developers delivering an architecture and design platform, while contributing to backend APIs, administration tools and application architecture.
- Worked on the WordPress-to-Next.js migration, MongoDB optimization, Redis caching, S3 asset storage and Cloudflare integration.
- Separated services and implemented GitLab CI/CD, Kubernetes deployment and Istio traffic management; contributed to an encrypted business messaging application.

Freelance Software Developer

International client projects | Jan 2014 - Mar 2020

- Delivered web and mobile applications, custom WordPress and Drupal functionality, payment integrations and CRM workflows for overseas clients.
- Handled API and database development, cloud storage, caching and deployment; translated business processes into operational software.

AI Engineering Projects

MCP Document Publisher

Personal project | In development | Go, MCP, React

- Building an MCP helper and web application to publish Markdown, PDF and interactive HTML from AI-assisted workflows.
- Implementing explicit publish confirmation, access controls and document rendering; production identity, delivery and recovery validation remain in progress.

Personalized Research Briefs

Personal project | Internal preview

- Developing a workflow that filters collected sources by topic, retains supporting evidence and incorporates reader feedback into reviewed revisions.
- Includes private channels, scheduled tasks and Markdown export; production validation is in progress.

Selected Client Projects

Payment Gateway Integration

CXM | 2018 - 2020 | Drupal, PHP, MySQL, Redis

- Integrated Alipay, WeChat Pay and UnionPay deposit and withdrawal workflows, with administrative review and MT4 API integration.
- Implemented scheduled reconciliation reports and transaction checks; applied Nginx and Redis caching to handle application traffic.

Pharmaceutical Delivery Platform

EXDE, Canada | 2018 - 2019 | Ionic, MongoDB, GraphQL, S3

- Built APIs and a driver app for location-based order matching, delivery acceptance, photo receipts and delivery confirmation.
- Developed a pharmacy portal for contact and order management, including reusable templates for recurring deliveries.

Business Messaging Application

2020 - 2023 | Go, Cassandra, Redis, Kubernetes, WebRTC

- Designed service architecture and implemented multi-identity accounts, end-to-end encrypted messaging, cross-region data synchronization and voice/video calls.
- Used S3 for file storage and Kubernetes for deployment. Development was later paused because of funding constraints.

CRM and WordPress Automation

1reason.com, United States | 2015 - 2018 | SuiteCRM, WordPress, PHP

- Integrated click-to-call VoIP, invoice generation, subscription management and email workflows; customized WordPress content collection and publishing.

Education and Earlier Experience

E-commerce | Hangzhou Normal University | Sep 2004 - Sep 2008

Earlier experience includes a machinery sales business (2010 - 2014) and SEO and website operations roles (2008 - 2010).