

Roc Yu

FULL-STACK & AI SOFTWARE ENGINEER

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China / Remote

Full-stack and AI software engineer with 15+ years of experience building reliable products across AI tooling, healthcare, education, e-commerce, and digital assets. Experienced in AI agent development, MCP and tool integrations, LLM workflows, product engineering, backend architecture, APIs, databases, and cloud delivery.

01 TECHNICAL SKILLS

AI ENGINEERING	AI agents, MCP, tool calling, LLM workflows, OpenAPI, GraphQL, prompt design
FRONT END	JavaScript, TypeScript, React, Vue.js, Svelte, HTML5, CSS3
BACK END	Ruby, Ruby on Rails, Go, Node.js, REST APIs, distributed systems
DATA & CLOUD	PostgreSQL, MySQL, MongoDB, AWS, Google Cloud, Git, GitHub, GitLab
AI DEVELOPMENT	Codex, Claude Code, Cursor, GitHub Copilot, agent-assisted testing and delivery

02 PROFESSIONAL EXPERIENCE

Freelance Engineer & Consultant

INDEPENDENT | 2019 - Present

Partner with product teams to design, build, and improve customer-facing platforms, AI agents, and internal tools. Recent work spans telehealth, e-commerce, workflow automation, LLM and API integrations, backend architecture, and delivery.

Web Developer

INTRIDEA | 2010 - 2019

Built web applications for a wide range of clients using Ruby on Rails and modern front-end technologies. Delivered commerce, energy, community, analytics, and large-scale data visualization products in collaboration with cross-functional teams.

03 SELECTED PROJECTS

Mindful Health

<https://www.getmindfulhealth.com/>

Online mental healthcare platform connecting patients with psychiatric care, therapy, and coaching across the United States.

STACK / FOCUS Healthcare / Product engineering / Full stack

imToken

<https://token.im/>

Contributed to the admin platform and API for a leading non-custodial digital wallet serving millions of users globally.

STACK / FOCUS Blockchain / APIs / Admin systems

Great Minds

<https://greatminds.org/>

Built the curriculum commerce platform from the ground up, helping teachers and families discover and purchase educational materials.

STACK / FOCUS Ruby on Rails / Spree / E-commerce

HerbDoc

<https://www.herbdoc.com/>

Worked on the e-commerce platform for Dr. Schulze's herbal health products, supporting a large catalog, subscriptions, and direct-to-consumer shopping.

STACK / FOCUS E-commerce / Subscriptions / Full stack

Data Visualization Platforms

<https://www.globalreligiousfutures.org/>

Built interactive, data-rich experiences for Pew Research, Scripture Analytics, BLiNQ Media, and RGS Energy, translating complex datasets into accessible products.

STACK / FOCUS Ruby on Rails / D3.js / Highcharts / Mapbox / PostgreSQL

04 OPEN SOURCE

go-ethereum

Contributor to the official Go implementation of the Ethereum protocol.

github.com/ethereum/go-ethereum

MCPLoom

Open-source platform that turns REST and GraphQL APIs into self-hosted MCP servers for AI agents.

github.com/rociui/mcploom

face

Ruby wrapper for an early computer vision API; 110+ GitHub stars.

github.com/rociui/face