KEXIN LIU

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Homepage: https://cola-coding.github.io (English) ⋄ https://colamini.github.io (Chinese)

EDUCATION

South China University of Technology (SCUT) *Aug. 2014 - Jul. 2018*

- B.Sc in **Computer Science and Technology**
- GPA: 3.84/4.0, Ranked: Top 3%

PROFESSIONAL EXPERIENCE

South China Digital and AI Research Institute (AI) *Oct 2022 - Present*

- Title: Senior Software Engineer (Full Stack)
- Led full-stack development of **React-based AI** education platform, optimizing initial load time.
- Designed real-time speech system using **WebRTC/WebSocket**, achieving 220ms latency.

Tencent (WeChat) *Apr 2020 - Jul 2022*

- Title: Senior Software Engineer (Frontend)
- Led migration to **Vue3**/**TypeScript**/**Node.js** for Mini-Program ecosystem.
- Designed **RESTful APIs**, **distributed system SDK**, and complex **state management**.
- Contributed to **Mini-Program**, **Live Streaming**, and **Customer Services**.

Meituan (HomeStay) *Nov 2017 - Aug 2019*

- Title: Junior Software Engineer (Frontend)
- Optimized performance for **Homestay** platform with 10M+ UV/month.
- Developed **RBAC system** with 10+ permission levels.
- Integrated **SSR** with **Node.js**.

KEY PROJECTS

AI Teaching Assistant **React, TypeScript, Docker, LangChain**

- Integrated **LangChain RAG**, increasing accuracy by 20%.
- Integrated **real-time speech system**, reducing latency to 200ms.

Wetel Distributed Tracing System **SDK, Distributed System**

- Developed **distributed tracing SDK** using **OpenTelemetry** and **Prometheus**.
- Reduced **MTTR** by 15% using full-chain trace analysis.
- Designed **SDK** with ¡5ms overhead for seamless integration.

WeChat Open Platform Refactoring **Docker, CI/CD, Webpack, Node.js, TypeScript**

- Improved build time by 25%.
- Developed **cross-team component library** with 60% reuse rate.

SKILLS

Languages JavaScript/TypeScript, Python
Libraries and Tools React, Vue, Redux/Flux, Webpack, Babel, Node.js, NestJS, Express, Docker, CI/CD Pipelines, Git, Langchain, RAG