Chan Meng

AI/ML Infrastructure Engineer — Full-Stack Developer

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EDUCATION

Lincoln University   Nov 2023–Dec 2024
Master in Applied Computing   New Zealand

Jiangsu Normal University   Sep 2012–Jun 2016
Bachelor in Geography Science   China

PROFESSIONAL EXPERIENCE

Mar 2025–Present
Senior AI/ML Infrastructure Engineer   Remote

- Led the development of two key products that helped Sanicle achieve IBM Silver Partner certification through close collaboration with the IBM team. Currently representing Sanicle in strategic discussions with Google to secure investment funding and startup resources.
- Designed and developed Sanicle's corporate website using Next.js 15 and React 19, integrating IBM Cloud watsonx AI as an interactive customer service assistant that engages visitors through conversational interface to better understand Sanicle's offerings
- Engineered Sanicle.Cloud, a comprehensive SaaS platform for workplace women's health management (menstrual and menopause wellness), featuring role-based dashboards for employees and HR departments with predictive absenteeism alerts
- Implemented IBM Cloud watsonx AI within the Sanicle.Cloud employee dashboard, enabling AI-powered health consultations and automated leave requests, significantly enhancing user experience for corporate clients
- Built secure multi-tenant architecture with end-to-end encryption and GDPR compliance using PostgreSQL and Drizzle ORM, ensuring complete data isolation between organizations while maintaining system scalability

Nov 2024–Jun 2025
Full-Stack Developer & CTO   Remote

- Leading software development for a HKUST(GZ)-incubated startup that builds smart vending systems for feminine hygiene products in public spaces. Primary responsibility includes designing and developing the company website and database infrastructure.
- Architected full-stack solution using Next.js 14 with App Router for company website
- Built responsive interface using React 18, Tailwind CSS, and shadcn/ui
- Created custom i18n solution for English-Chinese localization
- Implemented location services with Google Maps API and analytics dashboard using Recharts

Nov 2024–Mar 2025
Backend Developer   Remote

- Contributed to TikTok's microservices-based ecommerce platform development, integrating AI recommendations within a 7-member team guided by 22 senior backend engineers.

- Developed core microservices using Spring Cloud for user authentication, product management, and order processing
- Implemented database architecture using MySQL with Redis caching and RabbitMQ message queue optimization
- Integrated Qwen LLM API for intelligent product recommendations and search functionality
- Built responsive UI components with Vue3 and Element Plus

Mobile Application Developer

Jun 2024–Nov 2024
Christchurch

- Led frontend development and database architecture of offline-first mobile application for field maintenance operations in 5-member Agile team, contributing 60% of codebase and 98% of documentation.
- Designed SQLite database schema scaling to 18 tables for offline data management
- Implemented automated background sync and real-time status monitoring
- Integrated ArcGIS mapping services with GPS tracking
- Developed React Native mobile UI with dark/light themes and dynamic forms for field operations

SKILLS & COMPETENCIES

Programming Languages: TypeScript, JavaScript, Python, Java, Go, HTML, CSS, SQL, R

AI/ML & Cloud: Generative AI, LLM Integration, NLP, Prompt Engineering, RAG Architecture, AWS (Amazon Lightsail, Bedrock, ECS), IBM Cloud watsonx, Agentic AI Systems

Frontend: React, Next.js, Angular, Tailwind CSS, Redux, Framer Motion, Three.js

Backend: Node.js, Express, Spring Boot, REST API, Flask, FastAPI, WebSocket, Microservices

Databases: PostgreSQL, MongoDB, MySQL, SQLite, Redis, Database Design, Query Optimization

DevOps & Tools: Docker, Kubernetes, Git, CI/CD, System Architecture, API Design, Performance Optimization

AWARDS & HONORS

- United Nations CSW 69 Speaker — Beyond Beijing 30 Conference, New York, Mar 2025
- Outstanding Performer — UN Women FemTech Hackathon, Mar 2025
- She Sharp Ambassador — Career Development Events, Auckland, Jul 2025 - Present
- AI Forum NZ Mentor — AI Hackathon Festival, Auckland, Aug 2025
- Most Popular Mentor — Forward with Her Program, Feb 2025
- Excellence Award Winner — FemTech China Women's Health Technology Challenge, Dec 2024
- SS-Rank Deep Contributor — Award for Sustained Code Contributions in GitHub 2024

CERTIFICATIONS

- Software Engineer - HackerRank
- Frontend Developer (React) - HackerRank
- Problem Solving (Intermediate) - HackerRank
- JavaScript (Intermediate) - HackerRank
- Node.js (Intermediate) - HackerRank
- Angular (Intermediate) - HackerRank
- Go (Intermediate) - HackerRank
- Java Professional - JetBrains
- SQL (Advanced) - HackerRank

- Rest API (Intermediate) - HackerRank
- Data Analysis - Microsoft
- Docker Professional - Docker Foundation
- Ubuntu Linux Professional - Canonical
- Agile Project Management - Atlassian
- Cybersecurity - Microsoft