

Chan Meng

Web & App Full-Stack Software Developer



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INTRODUCTION

Full-stack developer with expertise in React/Next.js, TypeScript, Python, and cloud technologies, specializing in building scalable web applications and AI-integrated solutions. Currently serving as CTO at FreePeriod and Backend Developer at ByteDance, delivering high-impact technical solutions while championing clean, maintainable code.

A recognized minimalist influencer who advocates for simplicity in both code architecture and life philosophy. Active open-source contributor with 8+ successful projects, focusing on developer tools and educational resources. Passionate mentor supporting underrepresented groups in STEM, particularly women technologists, through Forward with Her mentorship program.

Combining technical excellence with minimalist design principles to create elegant, efficient solutions. Proven track record of leading technical teams, implementing best practices, and fostering inclusive development environments.

EXPERIENCE

ByteDance, Remote — Backend Developer

Nov 2024 - PRESENT

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**

FreePeriod, Remote — Full-Stack Developer & CTO

Nov 2024 - PRESENT

Leading software development for a HKUST(GZ)-incubated startup that builds smart vending systems for feminine hygiene products in public

EDUCATION

Master of Applied Computing - Lincoln University

Nov 2023 - Dec 2024 | New Zealand
| Dean's List Honoree (**top 5%**)

Bachelor of Geography Science - Jiangsu Normal University

Sep 2012 - Jun 2016 | China | with
Distinction (GPA **above 80%**)

SKILLS

PROGRAMMING LANGUAGES

TypeScript • JavaScript • Python •
HTML • CSS • SQL

FRONTEND

React • Next.js • Angular • Tailwind
CSS • Redux • Framer Motion •
Three.js

BACKEND

Node.js • Express • Flask • FastAPI •
RESTful APIs • WebSocket •
Authentication • Real-time Data
Processing

DATABASES

PostgreSQL • MongoDB • MySQL •
SQLite • Database Design • Query
Optimization

ADDITIONAL EXPERTISE

System Architecture • API Design •
Performance Optimization •
Technical Documentation •
Test-Driven Development • Agile
Methodologies

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**

CORDE, Christchurch — *Mobile Application Developer*

Jun 2024 - Nov 2024

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

RECENT PROJECTS / OPEN-SOURCE

FriendScope — *Full-Stack Web Application*

Oct 2024 - PRESENT

Independently developed a privacy-focused relationship assessment platform featuring comprehensive analysis and visualization tools, gaining significant user traction with consistently positive feedback.

- Developed privacy-first architecture using **Zustand** state management, enabling anonymous data persistence without user authentication
- Implemented automated PDF report generation and historical trend analysis features, driving strong user engagement and retention
- Created responsive UI enhanced by **Framer Motion** animations for optimal cross-platform experience

Gradient SVG Generator — *Dynamic SVG Generation Suite*

Jan 2025 - PRESENT

Developed an open-source platform for generating animated gradient SVGs through a web interface and API, garnering recognition from Reddit's r/lgbt community for its inclusive design templates.

- Created **Node.js** and **Express.js** backend supporting multiple gradient types and animation configurations via RESTful API
- Built interactive customization interface enabling real-time preview and one-click code copying
- Implemented extensible template system for aesthetic gradients and pride flag variations

Explore 50+ additional open-source projects on [my GitHub](#).

ACHIEVEMENTS & COMMUNITIES

- **Excellence Award Winner** — FemTech China Women's Health Technology Challenge 2024
- **Most Popular Mentor** — Forward with Her Program 2025, supported by UN Women
- **SS-Rank Deep Contributor** — Award for Sustained Code Contributions in GitHub 2025
- **S-Rank Multilingual Developer** — GitHub Trophy 2025
- **Founder** — TechRosie GitHub Organization, promoting diversity in tech

CERTIFICATIONS

CORE DEVELOPMENT

- Software Engineer - HackerRank
- Frontend Developer (React) - HackerRank
- Problem Solving (Intermediate) - HackerRank

FRAMEWORKS & LANGUAGES

- JavaScript (Intermediate) - HackerRank
- Node.js (Intermediate) - HackerRank
- Angular (Intermediate) - HackerRank
- Go (Intermediate) - HackerRank

DATABASE & API

- SQL (Advanced) - HackerRank
- Rest API (Intermediate) - HackerRank
- Data Analysis - Microsoft

DEVELOPMENT TOOLS & PRACTICES

- GitHub Professional - GitHub
- Docker Professional - Docker Foundation
- Agile Project Management - Atlassian
- System Administration - Microsoft

REFERENCES

Professional references available upon request, including management-level references from recent development projects.