

Chan Meng

Web & App Full-Stack Developer

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GITHUB | LINKEDIN | HACKER RANK | PORTFOLIO

EDUCATION

LINCOLN UNIVERSITY

APPLIED COMPUTING MASTERS

Percentage: Dean's List Honoree - top 5%

Nov 2023 - Dec 2024

New Zealand

JIANGSU NORMAL UNIVERSITY

GEOGRAPHY SCIENCE BACHELORS

GPA: with Distinction - above 80%

Sep 2012 - Jun 2016

China

EXPERIENCE

BYTEDANCE | FULL-STACK DEVELOPER | APPRENTICESHIP

Remote | Nov 2024 - Present

Overview

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

Key Implementations

- 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**
- Configured **Docker** containerization and monitoring infrastructure
- Established Git workflow and technical documentation standards

FREEPERIOD | FULL-STACK DEVELOPER & CHIEF TECHNOLOGY OFFICER | FREELANCE

Remote | Nov 2024 - Present

Overview

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.

Key Implementations

- 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**
- Designed distributed vending system database architecture with hardware integration APIs
- Created custom i18n solution for English-Chinese localization
- Implemented location services with **Google Maps API** and analytics dashboard using **Recharts**
- Established **Vercel** deployment pipeline and development standards

FORWARD WITH HER | FULL-STACK DEVELOPER & TECHNICAL LECTURER | PART-TIME

Remote | Oct 2024 - Present

Overview

Selected as technical lecturer for UN Women-supported initiative, delivering online technical sessions while independently developing two web platforms: organization's promotional website and AI programming education platform, benefiting 800+ women in STEM.

Key Implementations

Platform Development

- Built promotional website featuring **Three.js** and **Spline** 3D visualizations
- Developed AI programming education platform using **Docusaurus**
- Integrated **React Player** and **Mermaid** for rich media content
- Created interactive tutorials using **MDX** with multilingual support
- Optimized GPU-accelerated animations and SEO performance

Educational Impact

- Delivered 9 technical lectures since October 2024
- Provided technical mentoring sessions and consultation
- Created comprehensive AI programming curriculum

CORDE | MOBILE APPLICATION DEVELOPER | INTERNSHIP

Hybrid | Christchurch | Jun 2024 – Nov 2024

Overview

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.

Key Implementations

- Built complete mobile UI/UX using **React Native** and **Native Base**
- Designed **SQLite** database schema scaling to 18 tables for offline data management
- Integrated **ArcGIS** mapping services with GPS tracking
- Implemented automated background sync and real-time status monitoring
- Developed field-optimized UI with dark/light themes and dynamic form handling

AGRIHIRE SOLUTIONS | FULL-STACK DEVELOPER | APPRENTICESHIP

Hybrid | Christchurch | Apr 2024 – Jun 2024

Overview

Developed multi-role equipment rental management system within 5-member team, specializing in dashboard and visualization features.

Key Implementations

- Created role-specific dashboards for 4 user types using **Bootstrap** and **jQuery**
- Built real-time analytics visualization using **ECharts**
- Developed equipment booking system with **FullCalendar**
- Integrated **Flask** backend APIs for data management
- Implemented responsive design with dynamic filtering capabilities
- Created comprehensive client-side validation system

SKILLS

PROGRAMMING LANGUAGES	Python, TypeScript, JavaScript, Go, HTML, CSS, R, Java, C#, SQL
LIBRARIES/FRAMEWORKS	React, Next.js, TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, Flask, Express.js, React Native, Gin, GORM, Tailwind CSS, shadcn/ui, Docusaurus, Streamlit, Recharts, Chart.js, Framer Motion, JWT, Papaparse, Mermaid, Angular
TOOLS / PLATFORMS	Vercel, HuggingFace, Git, GitHub, Chrome Web Store, Jupyter Notebook, Streamlit Cloud, Node.js, npm, Visual Studio Code, Docker, Webpack, Redis, GitHub Actions, Microsoft Azure, Microsoft 365
DATABASES	MySQL, Supabase, SQLite, PostgreSQL, Redis, Supabase, MongoDB, Microsoft SQL Server

PROJECTS / OPEN-SOURCE

FRIENDSCOPE | [LINK](#)

Next.js, Recharts, Radix UI, Framer Motion, Tailwind CSS

Scientific friendship assessment tool evaluating relationships across 10 key aspects with comprehensive visualization and analysis.

CUSTOMER INSIGHT | [LINK](#)

Streamlit, Natural Language Processing, Transformers, Jieba, Plotly

Comprehensive customer review analysis system with sentiment analysis, keyword extraction, and topic modeling capabilities in multiple languages.

TENCENT MEETING VIDEO DOWNLOADER | [LINK](#)

Chrome Extension APIs, JavaScript, Webpack

Chrome extension enabling easy download of Tencent Meeting recordings through optimized curl commands generation.

GRADIENT SVG GENERATOR | [LINK](#)

Node.js, Express.js, SVG, REST API

Tool for creating animated gradient SVGs with customizable text overlays and pride-themed templates.

MCP SERVER GOOGLE NEWS | [LINK](#)

TypeScript, Node.js, Model Context Protocol (MCP), SerpAPI

A MCP server implementation providing automated news categorization and multi-language search capabilities through SerpAPI integration.

FEMTRACKER | [LINK](#)

React Native, TypeScript, SQLite, React Native Paper, Expo

Privacy-focused mobile application for menstrual product usage tracking featuring real-time duration tracking and smart notifications.

LINKEDIN JOBS SEARCH | [LINK](#)

Express.js, Node.js, TailwindCSS, LinkedIn API

Enhanced LinkedIn job search platform featuring advanced filtering, real-time updates, and streamlined result presentation.

JOURNEY OF REINCARNATION | [LINK](#)

Next.js, Chart.js, react-simple-maps, i18next, Framer Motion

Web simulation exploring life circumstances across various countries with interactive world map and dynamic statistics visualization.

INTERACTIVE STORY GENERATOR | [LINK](#)

Python, Gradio, HuggingFace, Transformers

AI-powered story generation system with character creation and narrative customization capabilities.

ENGLISH REDEFINE | [LINK](#)

Next.js, TypeScript, React, Tailwind CSS, Gemini AI

Modern platform providing fresh interpretations of English words using Google's Gemini AI technology with beautiful card generation capabilities.

LIBRARY MANAGEMENT SYSTEM | [LINK](#)

Next.js, Supabase, PostgreSQL, React Hook Form, shadcn/ui

Modern library management system with real-time updates, comprehensive borrowing workflow, and detailed analytics capabilities.

HEAT FLUX PERCEPTRONS NEURAL NETWORKS | [LINK](#)

PyTorch, NumPy, scikit-learn, Matplotlib

Implementation of neural networks for architectural thermal analysis, achieving detailed visualization of weight updates and comprehensive performance analysis.

BODY FAT ESTIMATION MLP | [LINK](#)

TensorFlow, Keras, Python, Matplotlib, scikit-learn

Neural network models for body fat prediction achieving R score of 0.9724 for full-feature model and 0.9617 for reduced-input model.

MNIST NEURAL NETWORK ANALYSIS | [LINK](#)

TensorFlow, Keras, NumPy, Pandas, Matplotlib

Implementation of multiple neural network architectures for handwritten digit recognition with 99.7% accuracy using deep CNN model.

CERTIFICATIONS

- Software Engineer Certificate - **HACKERRANK**
- Frontend Developer (React) Certificate - **HACKERRANK**
- SQL (Advanced) Certificate - **HACKERRANK**
- Problem Solving (Intermediate) Certificate - **HACKERRANK**
- JavaScript (Intermediate) Certificate - **HACKERRANK**
- Rest API (Intermediate) Certificate - **HACKERRANK**
- Nodejs (Intermediate) Certificate - **HACKERRANK**
- Angular (Intermediate) Certificate - **HACKERRANK**
- Go (Intermediate) Certificate - **HACKERRANK**
- R (Intermediate) Certificate - **HACKERRANK**
- Python (Basic) Certificate - **HACKERRANK**
- Java (Basic) Certificate - **HACKERRANK**
- C# (Basic) Certificate - **HACKERRANK**
- CSS (Basic) Certificate - **HACKERRANK**
- Career Essentials in Software Development - **MICROSOFT**
- Career Essentials in System Administration - **MICROSOFT**
- Career Essentials in Administrative Assistance - **MICROSOFT**
- Career Essentials in Project Management - **MICROSOFT**
- Career Essentials in Cybersecurity - **MICROSOFT**
- Career Essentials in Data Analysis - **MICROSOFT**
- Career Essentials in GitHub Professional Certificate - **GITHUB**

HONORS & AWARDS

- Dean's List - Top 5% Academic Performance, Lincoln University, New Zealand 2024
- Master of Applied Computing with Distinction - Lincoln University, New Zealand 2024
- Excellence Award Winner - FemTech China Womens Health Technology Challenge 2024
- SS-Rank Deep Contributor Award for Sustained Code Contributions - GitHub Trophy 2024
- S-Rank Achievement in Multilingual Development - GitHub Trophy 2024