

Chan Meng

Web & App Full-Stack Developer

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GITHUB | LINKEDIN | HACKERANK | 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**
- C++ Programming Professional Certificate - **OPENEDG C++ INSTITUTE**
- 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**
- Docker Foundations Professional Certificate - **DOCKER**
- Ubuntu Linux Professional Certificate - **CANONICAL**

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