

Wangbo XIA

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PROFESSIONAL SUMMARY

Assistant Engineer at China Mobile Hong Kong specializing in AI-driven network optimization and full-stack geospatial solutions. Led cross-institutional AI R&D projects and developed high-performance telecom applications improving planning efficiency by 90%.

EDUCATION

The University of Hong Kong

2022.09 – 2023.12

Master of Science in Engineering (Innovative Design and Technology)

University of Technology Sydney, Australia

2018.08 – 2021.08

Bachelor of Science in Information Technology

Graduated with Distinction & Dean's List 2021

EXPERIENCE

China Mobile Hong Kong

2023.11 – Present

AI Project Manager

2024.09 – Present

- **Strategic R&D Leadership:** Led CUHK collaboration on multi-million HKD AI platform for indoor wireless network design automation
- **Executive Oversight:** Reported progress and strategic updates to senior management board
- **Technical Roadmap:** Defined AI strategy for antenna placement and coverage prediction using deep learning and computer vision
- **Agile Delivery:** Managed 3-phase development lifecycle with 100% on-time milestone achievement
- **Cross-functional Alignment:** Bridged academic and industry teams to resolve AI model training and system integration challenges
- **Performance Metrics:** Achieved 95% antenna positioning accuracy, 90% model generalization, and 95+ satisfaction ratings
- **Risk Management:** Proactively addressed technical challenges to maintain 2025-2026 timeline.

Software Developer

2023.11 – Present

Full-Stack GIS Web Application | React.js, Node.js, PostgreSQL, Redis

- **Platform Development:** Built full-stack telecom network visualization platform with React/Node.js, serving 8+ geospatial data layers for Hong Kong network planning
- **API Optimization:** Created 36 RESTful APIs with Redis caching and PostGIS queries, achieving 90% performance improvement and efficient vector tile rendering
- **Interactive Mapping:** Engineered Leaflet-based interface with clustering, dynamic layers, and real-time filtering handling 10,000+ geographic features
- **Performance Engineering:** Implemented request debouncing, viewport-based fetching, and deployed with Nginx/PM2 for optimal scalability
- **Database Architecture:** Integrated 4 PostgreSQL databases with connection pooling for grid data, site management, and competitive analysis systems

GitHub: <https://github.com/EddieXIAHK/Full-Stack-GIS-Web-Application.git>

SKILLSET

Technical: React.js, Node.js, PostgreSQL/ PostGIS, Redis, Deep Learning, Computer Vision, Leaflet.js, RESTful APIs, Nginx, PM2

Professional: AI Project Management, Cross-functional Leadership, Strategic Planning, Agile Development, Risk Management