

Wangbo XIA

Tele: +852 51258924

Email: eddiesscondmail@gmail.com

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 <i>Graduated with Distinction & Dean's List 2021</i>	

EXPERIENCE

China Mobile Hong Kong	2023.11 – Present
AI Project Manager	2024.09 – Present
<ul style="list-style-type: none">Strategic R&D Leadership: Led CUHK collaboration on multi-million HKD AI platform for indoor wireless network design automationExecutive Oversight: Reported progress and strategic updates to senior management boardTechnical Roadmap: Defined AI strategy for antenna placement and coverage prediction using deep learning and computer visionAgile Delivery: Managed 3-phase development lifecycle with 100% on-time milestone achievementCross-functional Alignment: Bridged academic and industry teams to resolve AI model training and system integration challengesPerformance Metrics: Achieved 95% antenna positioning accuracy, 90% model generalization, and 95+ satisfaction ratingsRisk Management: Proactively addressed technical challenges to maintain 2025-2026 timeline.	
Software Developer	2023.11 – Present
<i>Full-Stack GIS Web Application React.js, Node.js, PostgreSQL, Redis</i> <ul style="list-style-type: none">Platform Development: Built full-stack telecom network visualization platform with React/Node.js, serving 8+ geospatial data layers for Hong Kong network planningAPI Optimization: Created 36 RESTful APIs with Redis caching and PostGIS queries, achieving 90% performance improvement and efficient vector tile renderingInteractive Mapping: Engineered Leaflet-based interface with clustering, dynamic layers, and real-time filtering handling 10,000+ geographic featuresPerformance Engineering: Implemented request debouncing, viewport-based fetching, and deployed with Nginx/PM2 for optimal scalabilityDatabase 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