

Kimsan Mak

Data Analyst / Geoscientist (MBA)

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PROFILE

Data analyst with a background in geosciences, specializing in complex geodata analysis, 3D geology and groundwater modelling, and international project management. Proficient in mining, metal production, and environmental domains. Dedicated to leveraging skills in data analytics to drive actionable insights and informed decision-making.

SKILL SETS

Data Analytics

Python: Group & Aggregate / Regression Supervised ML / Clustering Unsupervised ML / Time Series Data

SQL: Join / Filter / Clean / Query / Subquery / CTE

Tableau: Statistical Analysis / Spatial & Temporal Analysis / Charts / Dashboard / Storyboard

Excel: Pivot Table / Statistics / VBA

Tools: ArcGIS / Geosoft Target / MODFLOW

Soft Skills

Reliable / Work Independently / Problem-solving/ Adaptability

Languages

Mandarin (native) / English (fluent) / Germany (proficient) / Malay (fluent)

EDUCATION

CareerFoundry, Data Analytics (2024)

University of Maastricht, MBA (2017)

University of Tübingen, M.Sc. Applied Environmental Geoscience (2002)

PROFESSIONAL AFFILIATION

Member of German Professional Association of Geoscientist

RELEVANT PROJECTS

Rockbuster Online Movie Rental (link to [Portfolio](#) & [GitHub](#))

Used PostgreSQL to process data, query data with subqueries and CTE, and import outputs in Excel and Tableau for visualization. Dashboard, findings, and insights were provided to management for developing company strategy.

Influenza Season Preparedness (link to [Portfolio](#) & [Tableau](#))

Used Tableau to analyze population and influenza death data to identify high mortality groups and their distributions. Used time-series data to forecast the period of high influenza mortality. Findings and insights were used by the staffing agencies in managing hospital staff-to-patient ratios above 1.1.

SELECTED PROFESSIONAL EXPERIENCE

Consulting Geologist, Freelance / Germany (07.2020 – present)

Overcome the language and cultural barrier to freelance in Germany and acquired clients in the construction sector.

- Execute hydrogeological surveys, groundwater modelling, and building-site dewatering management for companies in Germany.
- Conduct research, *data assessment*, onsite due diligence, and assistance in the acquisition of mineral exploration projects.

Technical Manager, Gerald Group / Republic of Congo (06.2019-05.2020)

Seconded as Deputy COO to a joint-venture mining company. Collaborated with Chinese Partner to enhance cooperation in *improving data collection*, *data quality management*, and *data analysis* of the mine operation.

- Accelerated soil geochemistry sampling over large area and reassessed geospatial data such as, airborne electromagnetic data, multispectral satellite images, and soil geochemistry anomalies.
- Conducted business analysis of surrounding mines for the acquisition of mines or purchasing of ores.

Project Manager, Azumah Resources Ltd. / Ghana (02.2012-07.2014)

Managed an advanced gold project and completed the feasibility study in 10 months with the assistance of 16 team members.

- Improved *data-driven operation*, and conducted systematic soil geochemistry sampling, ground and airborne geophysics, and multispectral satellite images over 3400 km² licensed area.
- Collaborated with stakeholders in mitigating social-environmental problems from artisanal gold mining.

Technical Manager, Signet Mining Ltd. / South Africa (04.2008-04.2010)

Collaborated with data scientist on data modelling, data storage and *database management with SQL*, and *data analysis* for uranium exploration in Chad and Niger.

- Provided technical support and conducted *geostatistical analysis*, *resource modelling*, and *technical-financial evaluations* of mining projects investment in Africa.

Senior Consultant, ERM Shanghai / China (08.2005-07.2007)

Led a team of consultants in a fast-paced working environment and expanded environmental services to the mining sector in China.

- Evaluated soil and groundwater environmental risk and remediated groundwater contaminants.
- Advised clients from various sectors on reducing contaminants in soil and groundwater.